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PREFACE TO THE 62ND ANNUAL VOLUME.

(1930)

In response to requests from a number of subscribers, "WHITAKER" for 1930 is published in the first week of December, to make it available as a Christmas or New Year gift to friends and kinsmen overseas. Attention is particularly directed to the enlarged Index, which now serves for the 'Popular' (Paper Covered) Edition as well as for the "Complete" (Cloth Covered) book (see Note at head of this page), an asterisk (*) preceding entries contained only in the Complete Edition.

Among the new features are the New Ministry and House of Commons (pp 167-193), additions to Legal Notes (pp 211-269), lists of Secondary Schools in England and Wales (pp 312-350), a record of English Winters for Fifty Years (pp 491-496) and additions to Sporting and Athletic Record (pp 497-509), while Questions of the Day (pp *816-872) deal with matters of

Floods (pp *879-880), Science and Invention (pp *881-889), Literature (pp *890-893), Art (pp *894-895), Music (pp *895-896), Drama and Film (pp *897-902), Railways (pp *903-917), and Merchant Shipping (pp *918-929).

The Editor in Chief again wishes to express his gratitude to the public for their collaboration in the work of editing the present volume. The assistance so obligingly rendered is of the greatest value, and tends to preserve and increase the usefulness of a book which civilization has made indispensable to all who speak or read the English language.

Collaborators are earnestly requested to note the *first* day of October the *last* day for suggestions to reach the Office, at the address given below.

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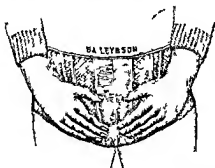
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| Unat | 84 | 818 | 9 | |
| Unat | | | | |
| Unat | 240 | 14 | | |
| Unat | 832 | | | |
| Unat | | | | |
| Unat | 290 | 11 | | |
| Unat | 769 | 2 | | |
| Unat | 344 | | | |
| Unat | 527 | | | |
| Unat | 276 | | | |
| Unat | 473 | | | |
| Unat | 86 | 99 | 867 | |
| Unat | 66 | 7 | | |
| Unat | 64 | 61 | 100 | 815 |
| Unat | 402 | 875 | 2 | |
| Unat | | | | |
| Unat | 375 | | | |
| Unat | 67 | 81 | | |
| Unat | 74 | | | |
| Unat | 375 | | | |
| Unat | 344 | | | |
| Unat | 85 | 841 | | |
| Unat | | | | |
| Unat | 459 | | | |
| Unat | 94 | 844 | | |
| Unat | 92 | 841 | 7 | |
| Unat | 541 | 844 | | |
| Unat | | | | |
| Unat | 86 | 847 | | |
| Unat | 571 | 847 | 11 | |
| Unat | 69 | 72 | | |
| Unat | | | | |
| Unat | 74 | 80 | 23 | |
| Unat | | | | |
| Unat | 73 | | | |
| Unat | 51 | | | |
| Unat | 4 | 847 | | |
| Unat | | | | |
| Unat | 53 | | | |
| Unat | 266 | | | |
| Unat | 70 | | | |
| Unat | 453 | 879 | | |
| Unat | | | | |
| Unat | 1 | 847 | 80 | |

CIVIL LIST PENSIONS 1923-29

A list of Pensions granted during the year ended March 31, 1929 under the provisions of

Mr. FRONACE MAID NEWMAN, widow of the late Mr. Robert Newman (Pensions)

Mrs. ANNE MAIDEN, widow of the late Mr. I. Maid (discharge of aeroplanes from ship)

WILLIAM McPHERSON FISHER

EDITH ANNIE LAY HOWARD, widow of the late Mr. Ebenezer Howard (gardens, etc.)

Mrs. JANE JACKSON, widow of the late Dr. Benjamin Day in Jackson

Mrs. ELIZABETH THOMAS JONES, widow of the late Mr. Lewis D. Jones (Watchmaker)

Mrs. MARI ANNIE McFALL, widow of the late Major Hallam McFall

JOSEPH GEORGE MITCHELL, in recognition of his literary and historical work

£75

£30

£30

£30

£30

Major George Charles Wallis, in recognition of his services as a father surgeon

Mrs. ANNE MARY WILSON, in recognition of the pioneer services rendered to the science of aviation by her husband, the late Mr. Joseph Vincent Wells

Mrs. ELIZABETH MOTTRAM WILLIAMS, widow of the late Dr. George Chisholm Waldemar Williams (R.C.S.) (X-ray)

£75

£100

£75

£60

£30

£30

£70

£30

£30

Total

£1,200

THE UNION JACK CLUB.

Waterloo Road, S.E. 1, Tel. Roy 3511
Patron in Chief, His Majesty the King
Patroness in Chief, Her Majesty the Queen
Patron, H.R.H. The Prince of Wales, K.G.
It is the Duke of Edinburgh, K.G.

President, Colonel Sir W. R. Law
Secretary, Colonel Sir H. G. G. G. G.

Vice-President, Colonel Sir H. G. G. G.
Hon. Treasurer, Sir G. J. Marshall

Officers and men may also be elected members of the Club.

The Club is managed by a Council and a General Committee, which includes representatives of the members.

F. O. Gascoigne

who had fallen
other camps
by his
membership in
since who are
Regular in
extended to
to the Navy
Powers visit
at the War

WORLD'S PRODUCTION OF CEREALS
WHEAT

| Country | Production (Millions of Quarters of 48lb) | |
|----------------------------|---|-------------------|
| | Actual 1928-29 | Estimated 1929-30 |
| U.S.A. | 113 | 98 |
| Soviet Union | 95 | say 100 |
| Canada | 66 | 37 |
| Argentina (1928-29) | 38 | |
| India | 36 | 39 |
| France | 35 | 40 |
| Italy | 29 | 31 |
| Australia & N.Z. (1928-29) | 21 | |
| Germany | 18 | 15 |
| Spain | 15 | 18 |
| Rumania | 14 | 14 |
| N. Africa (1929-30) | 13 | 15 |
| Yugoslavia | 12 | 11 |
| Hungary | 11 | 9 |
| Poland | 7 | 7 |
| U.K. | 6 | 6 |
| Czechoslovakia | 6 | 6 |
| Bulgaria | 6 | 5 |
| Japan & Korea | 5 | 5 |

The Argentine, Australian and New Zealand crops are only maturing at time of publication. Estimates put at 30 and 23 million quarters respectively.

The total world's production (1929) of wheat is probably 518 million quarters.

| Country | Production (Millions of Quarters of 48lb) | |
|----------------|---|-------------------|
| | Actual 1928-29 | Estimated 1929-30 |
| Soviet Union | 92 | say 95 |
| Germany | 30 | 35 |
| France | 27 | 30 |
| Czechoslovakia | 8 | 8 |
| U.S.A. | 5 | 5 |
| France | 4 | 5 |
| Hungary | 4 | 4 |
| Japan | 4 | 4 |
| Belgium | 3 | 2 |
| Spain | 2 | 3 |
| Lithuania | 2 | 3 |
| Sweden | 2 | 2 |
| Austria | 2 | 2 |
| Canada | 2 | 2 |
| Netherlands | 2 | 2 |

The total world's production (1929) of rye is probably 200 million quarters.

| Country | Production (Millions of Quarters of 48lb) | |
|---------------------|---|-------------------|
| | Actual 1928-29 | Estimated 1929-30 |
| U.S.A. | 42 | 36 |
| Soviet Union | 31 | say 30 |
| Germany | 18 | 16 |
| Canada | 17 | 13 |
| Japan and Korea | 14 | 14 |
| N. Africa & Morocco | 14 | 10 |
| India | 13 | 13 |
| Sweden | 12 | 12 |

OATS

| Country | Production (Millions of Quarters of 36lb) | |
|-----------------|---|-------------------|
| | Actual 1928-29 | Estimated 1929-30 |
| U.S.A. | 145 | 120 |
| Soviet Union | 110 | say 100 |
| Germany | 48 | 48 |
| Canada | 48 | 30 |
| France | 34 | 38 |
| U.K. and I.F.S. | 21 | 21 |
| Poland | 18 | 18 |
| Czechoslovakia | 10 | 9 |
| Sweden | 9 | 8 |
| Rumania | 7 | 9 |
| Denmark | 6 | 6 |
| Argentina | 6 | |

The total world's production (1929) of oats is probably 455 million quarters.

MAIZE

| Country | Production (Millions of Quarters of 48lb) | |
|---------------------|---|-------------------|
| | Actual 1928-29 | Estimated 1929-30 |
| U.S.A. | 331 | 295 |
| Argentina (1928-29) | 27 | |
| Soviet Union | 15 | say 15 |
| Rumania | 12 | 18 |
| Brazil | 10 | |
| Yugoslavia | 9 | 14 |
| India | 9 | say 9 |
| Egypt | 9 | say 9 |
| Mexico | 8 | say 8 |
| N. Africa | 8 | 8 |
| Italy | 7 | 12 |
| Hungary | 5 | 9 |
| Bulgaria | 2 | 3 |

The maize crops of Argentina and Brazil cannot yet be estimated.

The total world's production (1929 and 1929-30) of maize will probably be 450 million quarters.

THE WORLD'S GRAIN CROPS

In Millions of Quarters, 48lb of Wheat, Rye and Maize 40lb; of Barley 32lb; of Oats.

| | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 |
|----------|------|------|------|------|------|------|
| Wheat | 437 | 499 | 520 | 525 | 572 | 518 |
| Rye | 167 | 201 | 188 | 205 | 196 | 200 |
| Together | 604 | 700 | 708 | 730 | 768 | 718 |
| Maize | 441 | 503 | 485 | 480 | 460 | 450 |
| | 161 | 189 | 181 | 185 | 220 | 210 |
| | 413 | 447 | 420 | 415 | 495 | 453 |
| | 216 | 239 | 266 | 280 | 275 | 215 |

PRINCIPAL WHEAT IMPORTERS

| Country | Imports in Millions of Qrs of 480lb. year 1928 |
|-------------------|--|
| U.K. (incl I & S) | 25 |
| Germany | 11 |
| Italy | 13 |
| France | 6 |
| Belgium | 5 |
| Netherlands | 3 |
| Japan | 3 |
| Greece | 2 |
| Switzerland | 2 |
| Brazil | 2 |

Wheat Flour

| Country | Imports in Millions of Sacks of 480lb. year 1928 |
|-------------------|--|
| U.K. (incl I & S) | 5 |
| Brazil | 2 |
| Czechoslovakia | 2 |
| Egypt | 2 |
| Netherlands | 2 |
| Greece | 2 |
| Finland | 2 |

PRINCIPAL WHEAT EXPORTERS

| Country | Exports in Millions of Qrs of 480lb. year 1928 |
|--------------|--|
| Canada | 44 |
| U.S.A. | 22 |
| Argentina | 25 |
| Australia | 7 |
| Soviet Union | 1 |
| Hungary | 1 |
| N. Africa | 1 |
| Germany | 1 |

Wheat Flour

| Country | Exports in Millions of Sacks of 480lb. year 1928 |
|---------------------------|--|
| U.S.A. | 8 |
| Canada | 8 |
| Australia | 3 |
| U.K. | 2 |
| (incl exports to Ireland) | |
| Hungary | 1 |
| Argentina | 1 |
| Japan | 1 |
| France | 1 |

COMPARATIVE AREAS DEVOTED TO GRAIN GROWING IN MILLIONS OF ACRES

| Domination | Wheat | Barley | Oats | Maize | Rye |
|--------------|-------|--------|------|-------|-----|
| U.K. | 14 | 14 | 36 | | |
| U.S.A. | 58 | 12 | 42 | 200 | 3 |
| Canada | 24 | 4 | 23 | 0.8 | |
| Australia | 14.5 | 0.3 | 1 | 0.3 | |
| India | 32 | 6 | | 5 | |
| U.S.S.R. | 70 | 17 | 42 | 10 | 64 |
| Germany | 4 | 4 | 8 | | 11 |
| France | 13 | 2 | 8 | 1 | 2 |
| Argentina | 20 | 1.3 | 3 | 11 | 1 |
| Italy | 22 | 0.6 | 13 | 4 | 0.3 |
| Turkey | 8 | 4 | 27 | 11 | 0.7 |
| E. of Africa | 0.9 | | 0.6 | 5 | |

BRITISH EMPIRE CEREALS 1928

| WHEAT Millions Qrs of 480lb. | | | | |
|------------------------------|------------|------------------------------------|--------|-------------------------------------|
| Domination | Production | Export (incl reworked in the U.K.) | Import | Apparent Consumption or Requirement |
| U.K. | 6 | | 29 | 35 |
| Canada | 66 | 50 | | 16 |
| India | 36 | 1 | 0.7 | 35.7 |
| Australia | 29 | 10 | | 19 |
| N. Zealand | 1.2 | | | 1.2 |
| S. Africa | 0.9 | | 0.7 | 1.6 |
| (S) Russia | | | | |
| Malta | 0.3 | | 0.2 | 0.5 |
| Total | 130.4 | 61 | 30.6 | 100.0 |

Surplus over requirement 30 400 000 qrs

BARLEY Millions Qrs of 480lb.

| Domination | Production | Export | Import | Apparent Consumption or Requirement |
|------------------|------------|--------|--------|-------------------------------------|
| U.K. and Ireland | 6 | | 4 | 10 |
| Canada | 17 | 4 | | 23 |
| India | 12 | 0.9 | | 11.1 |
| Australia | 0.7 | 0.2 | | 0.6 |
| N. Zealand | 0.1 | | | 0.1 |
| S. Africa | 0.1 | | | 0.1 |
| Total | 36.9 | 5 | 4 | 34.9 |

Surplus over requirement 1 000 000 qrs

OATS Millions Qrs of 480lb.

| Domination | Production | Export | Import | Apparent Consumption or Requirement |
|------------------|------------|--------|--------|-------------------------------------|
| U.K. and Ireland | 21 | | 3 | 24 |
| Canada | 48 | 1.4 | | 46.6 |
| India | | | | |
| Australia | 2 | | | 2 |
| N. Zealand | 0.5 | | | 0.5 |
| S. Africa | 0.7 | | | 0.7 |
| Total | 72.2 | 1.4 | 3 | 73.8 |

Deficiency within the Empire 1 600 000 qrs

MAIZE Millions Qrs of 480lb.

| Domination | Production | Export | Import | Apparent Consumption or Requirement |
|------------------|------------|--------|--------|-------------------------------------|
| U.K. and Ireland | | | | |
| Canada | 0.7 | | 1.6 | 2.3 |
| India | 9 | | | 9 |
| Australia | 0.9 | | | 0.9 |
| S. Africa | 8 | 2 | | 6 |
| Indonesia | 0.6 | 0.4 | | 0.2 |
| Kenya | 0.4 | 0.2 | | 0.2 |
| Total | 19.6 | 2.6 | 1.6 | 28.6 |

Deficiency within the Empire 9 000 000 qrs

BRITISH EMPIRE CULTIVATION

| Principal Territories | Land Area | Cultivated Area where ascertained |
|-------------------------|---------------|--|
| | Acres. | Acres. |
| Gr. Britain & Ireland | 61 000 000 | 18 600 000 grain potatoes hay &c |
| Irish Free State | 17 000 000 | 1 237,000 cereals potatoes and flax |
| Isle of Man | 141 000 | 80 000 arable and grass |
| Channel Islands | 44 800 | |
| Cape | 228 000 000 | 56 000 000 grain cereals 700 000 000 forests |
| Newfoundland & Labrador | 104 000 000 | |
| Australia | 1 920 000 000 | 17 000 000 grain crops of which 60 per cent. wheat |
| New Zealand | 67 000 000 | 500,000 grain crops |
| Indian Empire | 1 155 000 000 | " " " " " " " " " " " " |
| Cyprus | 2 300 000 | " " " " " " " " " " " " |
| Malta | 77 000 | " " " " " " " " " " " " |
| Ceylon | 16 000 000 | " " " " " " " " " " " " |
| Malaya | 33 000 000 | " " " " " " " " " " " " |
| North Borneo | 20 000 000 | " " " " " " " " " " " " |
| Union of South Africa | 308 000 000 | " " " " " " " " " " " " |
| South West Africa | 100 000 000 | " " " " " " " " " " " " |
| Rhodesia North | 184 000 000 | " " " " " " " " " " " " |
| Phoebia South | 96 000 000 | 2 000 000 acres cultivated of which 295 000 maize |
| Local Government | 176 000 000 | |
| Basutoland | 7 500 000 | |
| Swaziland | 4 000 000 | " " " " " " " " " " " " |
| Kenya | 144 000 000 | " " " " " " " " " " " " |
| Nyasaland | 24 000 000 | " " " " " " " " " " " " |
| Tanganyika | 234 000 000 | " " " " " " " " " " " " |
| Uganda | 70 000 000 | " " " " " " " " " " " " |
| Sudan | 640 000 000 | " " " " " " " " " " " " |
| Nigeria | 278 000 000 | " " " " " " " " " " " " |
| Gambia | 58 000 000 | " " " " " " " " " " " " |
| Sierra Leone | 19 000 000 | " " " " " " " " " " " " |
| Somaland | 63 000 000 | |
| British West Indies | 8 000 000 | 141 000 cocoa bananas sugar &c |
| British Guiana | 58 000 000 | 85 000 sugar, rice &c |
| British Honduras | 5 000 000 | |
| Palestine | 5 750 000 | |
| Iran | 74 000 000 | |

THE NOBEL PRIZES

The Nobel Prizes are awarded from the Medicine—() Medicine or Physiology the income of a fund bequeathed to trustees by the Swedish Academy of Literature—() Literature

LIST OF AWARDEES (Value 1929 about £6,500)

| Year | Winner | Prize | Prize | Prize | Prize |
|------|--------------------|--------------|-----------------|----------------|----------------|
| 1920 | Clifford Elmore | W. N. R. R. | A. H. R. R. | Knut Hamsun | Leon Haugen |
| 1921 | Albert Elmore | F. S. R. R. | No award | Anatole France | Ch. H. R. R. |
| 1922 | Niels Bohr | F. W. A. R. | (1) Meyerhof | J. H. R. R. | (Ch. L. R. R.) |
| 1923 | R. A. Millikan | F. T. R. R. | (2) R. R. R. | W. B. R. R. | No award |
| 1924 | A. M. G. Siegelman | No award | (3) J. R. R. R. | W. R. R. R. | No award |
| 1925 | J. R. R. | R. Z. R. R. | W. Einthoven | G. B. R. R. | A. Chamberlain |
| 1926 | Jean Perrin | Th. G. R. R. | J. R. R. | G. R. R. | G. R. R. |
| 1927 | (A. H. R. R.) | H. W. R. R. | (J. R. R.) | Henri Bergson | F. R. R. |
| 1928 | O. W. R. R. | A. W. R. R. | (J. R. R.) | (J. R. R.) | (J. R. R.) |
| 1929 | D. R. R. | (J. R. R.) | (J. R. R.) | Th. R. R. | (J. R. R.) |

A

A, First class
 A.A., Automobile Association
 A.A.L.P.A., Associate of Incorporated Society of Auctioneers and Licensed Property Agents
 A.A.M.C., Australian Army Medical Corps
 A.B., Able bodied seaman
 A.C. (*Ante Christum*) Before Christ
 A.C.A., Associate of Institute of Chartered Accountants
 A.C.G.I., Associate of the City and Guilds Institute
 A.C.I.S., Associate of the Chartered Institute of Secretaries
 A.D. (*Anno Domini*) In the year of our Lord
 A.D.C., Aide de Camp A.D. Gen., ditto General
 Adj., Adjutant.
 Ad lib (*ad libitum*) At pleasure

born

years

Institute of Civil Engineers
 A.M.I.Chem.E., Associate Member of Institute of Chemical Engineers.
 A.M.I.E.P., Associate Member

Born U.S., Bombay Civil Service
 Brig. Gen., Brigadier General
 Et. Major, Colonel
 B.V.M., Blessed Virgin Mary

C.O.S., Charity Organisation Society
 Cr., Creditor
 Crea., Creation, created.
 C.S., Civil Service

| | | | |
|-------------|--|--|--|
| D.C. | Doctor of Civil Law | | |
| M.D. | Master of Divinity | | |
| D.D. | Doctor of Divinity | | |
| del (d) | deleted | | |
| Dep. | Department | | |
| Dept. | Department | | |
| D.F.C. | Decorated with the Order of the British Empire | | |
| Cross | Cross | | |
| D.G. | Doctor of Grammar | | |
| of Gram. | of Grammar | | |
| Dr Hy. | Doctor of Hygiene | | |
| D.I.C. | Diploma of the Imperial College of Science | | |
| Fec (fecit) | He did it | | |
| F.G.S. | Fellow of the Geological Society | | |
| G | | | |

| | | | |
|--------|---------------------------------|--|--|
| F | | | |
| F.A.I. | Fellow of Auctioneers Institute | | |
| F.R.S. | Fellow of the Royal Society | | |
| F.R.S. | Fellow of the Royal Society | | |
| hp | horse power | | |
| H.R.H. | His (Her) Royal Highness | | |

| | | |
|--|--|---|
| Hrs. Hussars. | lb (libra) Pound weight | Mgr, Monsignor |
| H & H, His [Her] Serene Highness. | lb.w Lbs before wicket. | M Hy, Master of Hygiene |
| | Lo, Lower case, &c nail letter | M Inst C E Member of Institute of Civil Engineers |
| I | L C C London County Council | M I L F M I Mar L M I |
| I A, Indian Army | L S B ditto School Board | Mech. E., ditto Electrical. |
| I A B, Indian Army Depts | L J Lord Chief Justice | Marine, and Mechanical Engineers |
| I A R O, Indian Army Reserve of Officers | L P, Lieutenant of College of Preceptors | |

J J, Justice of the Peace.

K

K.B.E., Knight Commander of British Empire
 K. C., King's Counsel
 K. C. B., Knight Commander of the Bath
 K. C. I. E., Knight Commander of Indian Empire
 K. C. M. G., ditto of St. Michael and St. George
 K. C. M. I., Knight Commander of the Star of India
 K. C. V. O., ditto of Royal Victorian Order
 K. G., Knight of the Garter
 K. H. C., King's Honorary Chaplain, K. H. P. ditto Physician
 K. H. S., ditto Surgeon
 K. O. S. B., King's Own Scottish Borderers
 K. O. S. L. I., King's Own Yorkshire Light Infantry
 K. P. Knight of St. Patrick

L.S.A. Licentiate of Society of Apothecaries

L. S. d. Pound
 Ltd. Li.
 L. I. M.,
 Medicine.
 L. U., Liberal Unionist

M

Maj. Major
 M. Marq. Marquess
 M. Monsieur
 M. A., Master of Arts
 M. A. B., Metropolitan Asylums Board
 Mr., married
 M. B., Bachelor of Medicine
 M. D., Doctor of ditto
 M. B. E., Member of British Empire Order
 M. C., Military Cross
 M. C. C., Marylebone Cricket Club

Architects.

Mus. D. [B.], Doctor, [Bachelor] of Music
 M. V., Motor Vessel
 M. V. O., Member of Royal Victorian Order
 M. W. B., Metropolitan Water Board.

N

N. North
 Nat. Nationalist
 Nav. Naval
 N. B. (Nota bene) Note well
 N. C. O. Non commissioned Officer
 n. d. no date
 Non con. (Non con. contradicente) No one contradicting
 N. I., Northern Ireland (Govt., Parli., and P. C. of)
 N. L., National Liberal
 No. (Numero) Number
 Non seq. (non sequitur) It does not follow
 N. S., New style
 N. S. Nova Scotia
 N. S. W., New South Wales
 N. I. I., National Union of Lorrymen
 N. W. P. I. I., North West Provinces [Territory]
 N. Z., New Zealand

A. A., Aug. 1 of the Month
 A. E. B., Knight Bachelor

L

L. Liberal
 Lab. Labour
 L. A. H. Licentiate of Apothecaries Hall Dublin.
 Lat. Latitude

M. C. S., Malay Civil Service
 M. d. M., Mademoiselle
 M. E. O., Member of Executive Council
 Med., Medical Medicine
 Mem. (memento) Remembrance
 Messrs. (messieurs) Gentlemen
 M. F. H. Master of Fox Hounds
 M. G. Corps Machine Gun Corps

NOTES FOR THE YEAR 1930

[1

BEING THE SECOND YEAR AFTER BISSEXTILE OR LEAP YEAR AND 20 AND 21 OF KING GEORGE V

Calendar Elements and Dates for the Year.

| | | | | |
|------------------------------------|-----------|---------------------------------|---|---------|
| Golden Number | VII | Age is 01 Day | - | May 29 |
| Epoct | 30 | Union Day South Africa | - | June 3 |
| Solar Cycle (Year of) | 7 | Birth of King George V (1865) | - | June 3 |
| Poman Indiction (Year of) | 13 | Whit Sunday | - | June 8 |
| Dominical Letter | E | Trinity Sunday | - | June 15 |
| Julian Period (Year of) | 6643 | Corpus Christi | - | June 19 |
| Julian Day Jan 1 (beg 1st at noon) | 2,425,978 | Birth of Prince of Wales (1894) | - | June 23 |
| New Year's Day (Western Cal) | Jan 1 | Dominion Day Canada | - | July 1 |
| Foundation Day Australia | Feb 16 | Independence Day U.S.A. | - | Sept 2 |
| Sputnik 1st day | March 5 | Jewish New Year 5691 | - | Sept 23 |
| Ash Wednesday | March 5 | Armistice Day (1918) | - | Nov 11 |
| Good Friday | April 18 | Sundays after Trinity | - | Nov 23 |
| Easter Day | April 20 | St. Andrew's Day | - | Nov 30 |
| St. George's Day | April 23 | First Sunday after St. | - | Dec 25 |
| Accession of King George V (1910) | May 6 | CHRISTMAS DAY—Thursday | - | Dec 25 |
| Birth of Queen Mar (1887) | May 26 | | | |

The Tropical Year 1930-1931

| | | |
|-----------------------|------------|-------|
| Spring Equinox (1930) | March 21st | 8 54 |
| Summer Solstice | June 21st | 3 01 |
| Autumn Equinox | Sept 23rd | 18 04 |
| Winter Solstice | Dec 21st | 13 07 |
| Spring Equinox (1931) | March 21st | 14 01 |

Phases of the Moon, 1930

| Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| First Quarter | 8 1 | 27 1 | 26 1 | 25 1 | 24 1 | 23 1 | 22 1 | 21 1 | 20 1 | 19 1 | 18 1 |
| Full Moon | 14 22 | 22 21 | 21 21 | 20 21 | 19 21 | 18 21 | 17 21 | 16 21 | 15 21 | 14 21 | 13 21 |
| Last Quarter | 21 15 | 7 7 | 26 7 | 25 7 | 24 7 | 23 7 | 22 7 | 21 7 | 20 7 | 19 7 | 18 7 |
| New Moon | 29 19 | 7 7 | 26 7 | 25 7 | 24 7 | 23 7 | 22 7 | 21 7 | 20 7 | 19 7 | 18 7 |
| First Quarter | 6 1 | 27 1 | 26 1 | 25 1 | 24 1 | 23 1 | 22 1 | 21 1 | 20 1 | 19 1 | 18 1 |
| Full Moon | 13 8 | 22 21 | 21 21 | 20 21 | 19 21 | 18 21 | 17 21 | 16 21 | 15 21 | 14 21 | 13 21 |
| Last Quarter | 20 8 | 39 4 | 26 7 | 25 7 | 24 7 | 23 7 | 22 7 | 21 7 | 20 7 | 19 7 | 18 7 |
| New Moon | 28 13 | 33 3 | 26 7 | 25 7 | 24 7 | 23 7 | 22 7 | 21 7 | 20 7 | 19 7 | 18 7 |
| First Quarter | 5 1 | 27 1 | 26 1 | 25 1 | 24 1 | 23 1 | 22 1 | 21 1 | 20 1 | 19 1 | 18 1 |
| Full Moon | 12 14 | 22 21 | 21 21 | 20 21 | 19 21 | 18 21 | 17 21 | 16 21 | 15 21 | 14 21 | 13 21 |
| Last Quarter | 19 14 | 3 23 | 26 7 | 25 7 | 24 7 | 23 7 | 22 7 | 21 7 | 20 7 | 19 7 | 18 7 |
| New Moon | 27 30 | 5 46 | 26 7 | 25 7 | 24 7 | 23 7 | 22 7 | 21 7 | 20 7 | 19 7 | 18 7 |
| First Quarter | 4 1 | 27 1 | 26 1 | 25 1 | 24 1 | 23 1 | 22 1 | 21 1 | 20 1 | 19 1 | 18 1 |
| Full Moon | 11 13 | 22 21 | 21 21 | 20 21 | 19 21 | 18 21 | 17 21 | 16 21 | 15 21 | 14 21 | 13 21 |
| Last Quarter | 18 10 | 22 21 | 26 7 | 25 7 | 24 7 | 23 7 | 22 7 | 21 7 | 20 7 | 19 7 | 18 7 |
| New Moon | 26 19 | 8 8 | 26 7 | 25 7 | 24 7 | 23 7 | 22 7 | 21 7 | 20 7 | 19 7 | 18 7 |

Calendar for the Year 1930

| Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| 1 | 5 | 12 | 29 | 26 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 6 | 13 | 30 | 27 | 5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 7 | 14 | 31 | 28 | 6 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 8 | 15 | 1 | 29 | 7 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 9 | 16 | 2 | 30 | 8 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 10 | 17 | 3 | 31 | 9 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 11 | 18 | 4 | 1 | 10 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 12 | 19 | 5 | 2 | 11 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 13 | 20 | 6 | 3 | 12 | 9 | 9 | 9 | 9 | 9 | 9 |
| 10 | 14 | 21 | 7 | 4 | 13 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 | 15 | 22 | 8 | 5 | 14 | 11 | 11 | 11 | 11 | 11 | 11 |
| 12 | 16 | 23 | 9 | 6 | 15 | 12 | 12 | 12 | 12 | 12 | 12 |
| 13 | 17 | 24 | 10 | 7 | 16 | 13 | 13 | 13 | 13 | 13 | 13 |
| 14 | 18 | 25 | 11 | 8 | 17 | 14 | 14 | 14 | 14 | 14 | 14 |
| 15 | 19 | 26 | 12 | 9 | 18 | 15 | 15 | 15 | 15 | 15 | 15 |
| 16 | 20 | 27 | 13 | 10 | 19 | 16 | 16 | 16 | 16 | 16 | 16 |
| 17 | 21 | 28 | 14 | 11 | 20 | 17 | 17 | 17 | 17 | 17 | 17 |
| 18 | 22 | 29 | 15 | 12 | 21 | 18 | 18 | 18 | 18 | 18 | 18 |
| 19 | 23 | 30 | 16 | 13 | 22 | 19 | 19 | 19 | 19 | 19 | 19 |
| 20 | 24 | 31 | 17 | 14 | 23 | 20 | 20 | 20 | 20 | 20 | 20 |
| 21 | 25 | 1 | 18 | 15 | 24 | 21 | 21 | 21 | 21 | 21 | 21 |
| 22 | 26 | 2 | 19 | 16 | 25 | 22 | 22 | 22 | 22 | 22 | 22 |
| 23 | 27 | 3 | 20 | 17 | 26 | 23 | 23 | 23 | 23 | 23 | 23 |
| 24 | 28 | 4 | 21 | 18 | 27 | 24 | 24 | 24 | 24 | 24 | 24 |
| 25 | 29 | 5 | 22 | 19 | 28 | 25 | 25 | 25 | 25 | 25 | 25 |
| 26 | 30 | 6 | 23 | 20 | 29 | 26 | 26 | 26 | 26 | 26 | 26 |
| 27 | 31 | 7 | 24 | 21 | 30 | 27 | 27 | 27 | 27 | 27 | 27 |
| 28 | 1 | 8 | 25 | 22 | 31 | 28 | 28 | 28 | 28 | 28 | 28 |
| 29 | 2 | 9 | 26 | 23 | 1 | 29 | 29 | 29 | 29 | 29 | 29 |
| 30 | 3 | 10 | 27 | 24 | 2 | 30 | 30 | 30 | 30 | 30 | 30 |
| 31 | 4 | 11 | 28 | 25 | 3 | 31 | 31 | 31 | 31 | 31 | 31 |

DAY OF

Fasts and Festivals
Remarkable Days—Events

"CUTS LONGITUDE 300° = 100° 18"

THE SUN

DAYS

Rises.

Sets.

of the

year

Rises.

Sets.

of the

year

Circumcision NEW YEAR'S DAY.

General James Wolfe born 1727; died, Sept 13, 1759

Josiah Wedgwood potter died, 1795

Marshall Joffie O.M., born 1852

2nd Sunday after Christmas Gordon Coll foun 1899

Epiphany Twelfth Day [1830]

Old Christmas Day St Thomas Lawrence P.R.A., d

Galipoli evacuated by the British, 1916

Admiral Jervis Lord St Vincent, born, 1734

Nicholas Culpepper herbalist and astrologer d 1654

HILARY LAW SISTINGS REORY Marq Curzon b. 1859

1st Sunday after Epiphany Marq of Crewe b 1835

Flo v Monday George Fox quaker died 1690

Rivoli 1797 Marq of Lansdowne b 1845

Sandwich Islands discovered by Capt Cook 1778

Edmund Spencer d 1599 Coruña, 1809

David Lloyd George O.M., b 1863 Adm Beatty b 1871

Capt R Falcon Scott, n.w., reached South Pole, 1912

2nd Sunday after Epiphany Ciudad Rodrigo, 1812

John Ruskin d 1900 R D Blackmore d 1900

Nikolai Lenin founder of "Bolshevism," died, 1924

First Labour Government assumed office, 1924

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PHASES OF THE MOON

| | | |
|-----------------|----------|------|
| ☾ First Quarter | 21 21 31 | 10 8 |
| ☾ Full Moon | 24 22 | 21 0 |
| ☾ Last Quarter | 27 16 | 7 0 |
| ☾ New Moon | 29 19 | 7 4 |

Aries 17 25 24 25 25 25 25 25

Libra 29 0 44 25 1 45 0

Apries 26 15 24 25 2 60 0

Mean Longitude of Am. Note January 38° 55'

RAIN FELL AT GREENWICH IN JAN 1929,

on 22 days, total fall 0 74 inch, below the

average 17 0 95 inch.

MONTHLY NOTES

Jan. 1. Dog and establishment licences renew
also King's taxes due Holiday on Stock
Exchange, Bank Holiday in Scotland

Quarter Sessions to be held within the
period of 21 days immediately after

| Equation of Time | | | THE SUN (Mean Noon) | | | | | Altitude | | Mean Time | | Note | |
|------------------|-------------------|-----------|---------------------|----|-------------|-------------|-------|-----------------|------------------|-----------|--|-----------|--|
| H. | Add to App. Time. | Hely Year | At given hour | | Hour of Day | Approximate | | Altitude of Sun | Mean Time of day | | Note on this page, and the astronomical information on pages 111 to 119 of this ALMANAC. | | |
| | | | M. | S. | | Feet | U. S. | | M. | S. | ref r to Greenwich | | |
| 1 | 3 28 | 1 19 | 18 45 | 7 | 11 05 | 23 | 2 75 | 0 20 | 18 41 | 39 | 17 17 49 | MEMORANDA | |
| 2 | 3 56 | 1 18 | 18 49 | 33 | 11 04 | 22 57 | 7 | 0 22 | 18 45 | 35 | 17 13 33 | | |
| 3 | 4 24 | 1 16 | 18 53 | 55 | 11 02 | 22 53 | 3 | 0 24 | 18 49 | 32 | 17 9 37 | | |
| 4 | 4 52 | 1 15 | 18 58 | 20 | 11 01 | 22 46 | 4 | 0 26 | 18 53 | 29 | 17 5 41 | | |
| 5 | 5 19 | 1 13 | 19 2 | 44 | 10 99 | 22 40 | 0 | 0 27 | 18 57 | 25 | 17 1 45 | 1 | |
| 6 | 5 46 | 1 12 | 19 7 | 8 | 10 97 | 22 33 | 2 | 0 29 | 19 1 | 22 | 16 57 49 | | |
| 7 | 6 12 | 1 09 | 19 11 | 31 | 10 95 | 22 26 | 0 | 0 31 | 19 5 | 18 | 16 53 54 | 2 | |
| 8 | 6 38 | 1 07 | 19 15 | 53 | 10 93 | 22 18 | 3 | 0 33 | 19 9 | 15 | 16 49 58 | | |
| 9 | 7 4 | 1 04 | 19 20 | 15 | 10 90 | 22 10 | 1 | 0 35 | 19 13 | 11 | 16 46 2 | 3 | |
| 10 | 7 28 | 1 02 | 19 24 | 35 | 10 88 | 22 2 | 6 | 0 37 | 19 17 | 8 | 16 42 6 | | |
| 11 | 7 53 | 1 00 | 19 28 | 57 | 10 85 | 21 54 | 6 | 0 38 | 19 21 | 4 | 16 38 10 | 4 | |
| 12 | 8 16 | 0 97 | 19 33 | 17 | 10 83 | 21 43 | 2 | 0 40 | 19 25 | 2 | 16 34 14 | 5 | |
| 13 | 8 39 | 0 94 | 19 37 | 37 | 10 80 | 21 33 | 3 | 0 42 | 19 28 | 58 | 16 30 18 | | |
| 14 | 9 1 | 0 92 | 19 41 | 55 | 10 8 | 21 23 | 1 | 0 44 | 19 32 | 54 | 16 26 22 | 6 | |
| 15 | 9 23 | 0 89 | 19 46 | 14 | 10 75 | 21 12 | 4 | 0 45 | 19 35 | 51 | 16 22 26 | | |
| 16 | 9 44 | 0 86 | 19 50 | 31 | 10 72 | 21 2 | 3 | 0 47 | 19 40 | 47 | 16 18 30 | 7 | |
| 17 | 10 4 | 0 83 | 19 54 | 48 | 10 67 | 20 49 | 9 | 0 49 | 19 44 | 44 | 16 14 34 | 8 | |
| 18 | 10 24 | 0 80 | 9 59 | 4 | 10 66 | 20 38 | 0 | 0 50 | 19 48 | 40 | 16 10 38 | | |
| 19 | 10 43 | 0 77 | 20 3 | 20 | 10 63 | 20 25 | 7 | 0 52 | 19 52 | 37 | 16 6 43 | 9 | |
| 20 | 11 3 | 0 74 | 20 7 | 35 | 10 60 | 20 13 | 1 | 0 54 | 19 56 | 33 | 16 2 47 | | |
| 21 | 11 19 | 0 71 | 20 11 | 49 | 10 57 | 20 0 | 1 | 0 55 | 20 0 | 30 | 15 58 51 | 10 | |
| 22 | 11 35 | 0 68 | 20 6 | 2 | 10 54 | 19 46 | 7 | 0 57 | 20 4 | 27 | 15 54 55 | | |
| 23 | 11 51 | 0 65 | 20 10 | 14 | 10 51 | 19 34 | 0 | 0 58 | 20 8 | 23 | 15 50 59 | 11 | |
| 24 | 12 7 | 0 62 | 20 24 | 26 | 10 48 | 19 18 | 8 | 0 60 | 20 12 | 20 | 15 47 3 | 12 | |
| 25 | 12 21 | 0 59 | 20 28 | 37 | 10 45 | 19 4 | 3 | 0 61 | 20 16 | 16 | 15 43 7 | 13 | |
| 26 | 12 35 | 0 55 | 20 32 | 48 | 10 41 | 18 49 | 5 | 0 63 | 20 20 | 13 | 15 39 11 | | |
| 27 | 12 48 | 0 52 | 20 36 | 57 | 10 38 | 18 34 | 3 | 0 64 | 20 24 | 9 | 15 35 15 | 14 | |
| 28 | 13 0 | 0 49 | 20 41 | 6 | 10 35 | 18 18 | 8 | 0 65 | 20 28 | 6 | 15 31 19 | | |
| 29 | 13 11 | 0 45 | 20 45 | 14 | 10 3 | 18 2 | 9 | 0 67 | 20 32 | 2 | 15 27 13 | 15 | |
| 30 | 13 22 | 0 42 | 20 49 | 21 | 10 28 | 17 46 | 7 | 0 68 | 20 35 | 59 | 15 23 28 | | |
| 31 | 13 31 | 0 39 | 20 53 | 27 | 10 24 | 17 30 | 2 | 0 60 | 20 39 | 56 | 15 19 12 | 16 | |

MEMORANDUM

METEOROLOGICAL OBSERVATIONS, JANUARY 1920

[illegible]

(See Note, below.)

THE MOON

Conjunction

CONJUNCTIONS, ECLIPSES, AND

| Day of M. | Place | | Set | | Right As (in sun.) | | Declina- tion | | Horiz- ional Paral- lax | | Age | | | |
|-----------|-------|----|-----|----|--------------------|----|---------------|----|-------------------------|----|-----|----|----|----|
| | | | | | | | | | | | | | | |
| M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 1 | 9 | 46 | 13 | 20 | 37 | 0 | 20 | 25 | 2 | 24 | 25 | 75 | 53 | 56 |
| 2 | 10 | 14 | 14 | 8 | 18 | 10 | 21 | 14 | 9 | 21 | 16 | 2 | 54 | 1 |
| 3 | 10 | 35 | 14 | 54 | 19 | 23 | 22 | 1 | 44 | 17 | 14 | 2 | 54 | 13 |
| 4 | 10 | 52 | 15 | 37 | 20 | 35 | 22 | 47 | 8 | 12 | 30 | 5 | 54 | 32 |
| 5 | 11 | 5 | 16 | 19 | 21 | 47 | 23 | 31 | 22 | 7 | 15 | 3 | 55 | 0 |
| 6 | 11 | 17 | 17 | 0 | 22 | 58 | 0 | 15 | 19 | 1 | 38 | 35 | 55 | 27 |
| 7 | 11 | 28 | 17 | 42 | 0 | 12 | 1 | 0 | 4 | 4 | 10 | 31 | 55 | 22 |
| 8 | 11 | 40 | 18 | 25 | 1 | 29 | 1 | 46 | 49 | 9 | 59 | 0 | 57 | 14 |
| 9 | 11 | 54 | 19 | 12 | 2 | 50 | 2 | 36 | 50 | 15 | 32 | 5 | 58 | 12 |
| 10 | 12 | 12 | 20 | 4 | 4 | 16 | 3 | 31 | 21 | 20 | 30 | 8 | 59 | 10 |
| 11 | 12 | 27 | 21 | 1 | 5 | 44 | 4 | 32 | 8 | 24 | 18 | 0 | 60 | 5 |
| 12 | 13 | 13 | 22 | 4 | 7 | 6 | 5 | 35 | 55 | 26 | 55 | 1 | 60 | 50 |
| 13 | 14 | 7 | 23 | 14 | 8 | 12 | 6 | 43 | 56 | 27 | 27 | 3 | 61 | 21 |
| 14 | 15 | 22 | 0 | 19 | 8 | 59 | 7 | 52 | 10 | 25 | 54 | 3 | 61 | 32 |
| 15 | 16 | 51 | 1 | 22 | 9 | 32 | 8 | 57 | 36 | 22 | 10 | 2 | 61 | 22 |
| 16 | 18 | 25 | 2 | 21 | 9 | 54 | 9 | 58 | 29 | 17 | 28 | 8 | 60 | 52 |
| 17 | 19 | 57 | 3 | 15 | 10 | 11 | 10 | 54 | 36 | 11 | 34 | 3 | 60 | 7 |
| 18 | 21 | 24 | 4 | 4 | 10 | 25 | 11 | 45 | 45 | 5 | 12 | 71 | 59 | 13 |
| 19 | 2 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | 8 | 41 | 22 | 52 | 17 | 12 | 21 | 50 | 1 | 13 | 21 | 5 | 54 | 10 |
| 31 | 8 | 58 | 23 | 36 | 18 | 25 | 22 | 35 | 55 | 13 | 33 | 75 | 54 | 24 |

The end of Civil twilight is here defined as the time when the Sun's centre is 33° below the horizon. Day breaks and Night begins when it is 18 below.

Jan 2, 1930 Mercury in conjunction with γ Q^3 N
Jan 3 Earth at least distance from the Sun Perihelion

conjunction
Jan 23 aft Eclipse of Jupiter III in l. at 12h 5am Sol
Jan 27 1h Saturn in conjunction with δ h^5 N
Jan 28 9h Mars in conjunction with δ 4^h N
Jan 28, 10h Mercury in conjunction with δ 8^h N
Jan 29 12h Venus in conj.

APPARENT RIGHT ASCENSION AND DECLINATION

AT NOON

| MERCURY | | | | VENUS | | | | MARS | | | | JUPITER | | | | SATURN | | | |
|---------|------|------|------|-------|------|------|------|------|------|------|------|---------|------|------|------|--------|------|------|------|
| R.A. | Dec. | R.A. | Dec. | R.A. | Dec. | R.A. | Dec. | R.A. | Dec. | R.A. | Dec. | R.A. | Dec. | R.A. | Dec. | R.A. | Dec. | R.A. | Dec. |
| D | M | S | M | D | M | S | M | D | M | S | M | D | M | S | M | D | M | S | M |
| 1 | 20 | 5 | 22 | 1 | 3 | 18 | 7 | 23 | 23 | 32 | 3 | 18 | 10 | 3 | 24 | 6 | 8 | 20 | 56 |
| 6 | 20 | 29 | 0 | 19 | 54 | 7 | 18 | 34 | 50 | 23 | 30 | 5 | 18 | 30 | 24 | 0 | 2 | 18 | 16 |
| 11 | 20 | 41 | 19 | 17 | 51 | 3 | 19 | 2 | 18 | 23 | 10 | 4 | 18 | 43 | 8 | 4 | 18 | 49 | 20 |
| 16 | 20 | 36 | 0 | 16 | 36 | 6 | 19 | 29 | 22 | 22 | 32 | 6 | 18 | 59 | 42 | 4 | 18 | 14 | 50 |
| 21 | 20 | 13 | 54 | 16 | 37 | 6 | 19 | 55 | 12 | 22 | 37 | 5 | 19 | 10 | 25 | 4 | 18 | 5 | 20 |
| 26 | 19 | 48 | 53 | 17 | 28 | 9 | 20 | 22 | 39 | 20 | 26 | 1 | 19 | 32 | 45 | 4 | 18 | 32 | 48 |
| 31 | 19 | 25 | 32 | 18 | 32 | 1 | 20 | 48 | 38 | 18 | 59 | 7 | 19 | 49 | 12 | 4 | 18 | 11 | 20 |

THE SUN AND PLANETS

| HORIZONTAL PARALLAX | | | | | | | | | | ANGULAR SEMIDIAMETER | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|----|----|----------------------|---|---|---|---|---|----|---|---|---|
| O | Q | Q | Q | Q | Q | Q | Q | Q | Q | O | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| D | M | S | D | M | S | D | M | S | D | M | S | D | M | S | D | M | S | D | M |
| 1 | 3 | 8 | 5 | 3 | 6 | 2 | 0 | 8 | 16 | 17 | 3 | 3 | 5 | 0 | 9 | 21 | 6 | 0 | 8 |
| 15 | 8 | 5 | 3 | 7 | 2 | 0 | 8 | 16 | 17 | 4 | 5 | 4 | 9 | 0 | 8 | 21 | 6 | 0 | 8 |
| 15 | 8 | 5 | 3 | 7 | 2 | 0 | 8 | 16 | 17 | 4 | 5 | 4 | 9 | 0 | 8 | 21 | 6 | 0 | 8 |
| 15 | 8 | 5 | 3 | 7 | 2 | 0 | 8 | 16 | 17 | 4 | 5 | 4 | 9 | 0 | 8 | 21 | 6 | 0 | 8 |
| 15 | 8 | 5 | 3 | 7 | 2 | 0 | 8 | 16 | 17 | 4 | 5 | 4 | 9 | 0 | 8 | 21 | 6 | 0 | 8 |
| 15 | 8 | 5 | 3 | 7 | 2 | 0 | 8 | 16 | 17 | 4 | 5 | 4 | 9 | 0 | 8 | 21 | 6 | 0 | 8 |
| 15 | 8 | 5 | 3 | 7 | 2 | 0 | 8 | 16 | 17 | 4 | 5 | 4 | 9 | 0 | 8 | 21 | 6 | 0 | 8 |
| 15 | 8 | 5 | 3 | 7 | 2 | 0 | 8 | 16 | 17 | 4 | 5 | 4 | 9 | 0 | 8 | 21 | 6 | 0 | 8 |
| 15 | 8 | 5 | 3 | 7 | 2 | 0 | 8 | 16 | 17 | 4 | 5 | 4 | 9 | 0 | 8 | 21 | 6 | 0 | 8 |
| 15 | 8 | 5 | 3 | 7 | 2 | 0 | 8 | 16 | 17 | 4 | 5 | 4 | 9 | 0 | 8 | 21 | 6 | 0 | 8 |

details relating thereto, are in the second column gives the

Time of High Water at the undermentioned Places—

| No. | LONDON DOCK | | | | LIVERPOOL | | | | Bristol | | | | H. L. (Inn. & Ham.) | | | | GRESHAM | | | | Lynn | | | | R. & T. W. | | | |
|-----|-------------|----|-------|----|-----------|----|-------|----|---------|----|-------|----|---------------------|----|-------|----|---------|----|-------|----|-------|----|-------|----|------------|----|-------|----|
| | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | |
| 1 | 3 | 33 | 15 | 0 | | | 11 | 7 | 8 | 1 | 10 | 17 | 6 | 45 | 18 | 48 | 0 | 57 | 13 | 27 | 3 | 41 | 15 | 50 | 0 | 19 | 12 | 31 |
| 2 | 3 | 7 | 15 | 37 | 0 | 29 | 12 | 40 | 8 | 35 | 20 | 51 | 7 | 24 | 19 | 27 | 1 | 32 | 13 | 51 | 4 | 24 | 16 | 45 | 0 | 52 | 13 | 1 |
| 3 | 3 | 39 | 18 | 11 | 1 | 2 | 12 | 43 | 9 | 8 | 21 | 22 | 8 | 0 | 19 | 53 | 2 | 11 | 14 | 20 | 4 | 53 | 16 | 59 | 1 | 30 | 13 | 35 |
| 4 | 4 | 8 | 16 | 45 | 1 | 35 | 13 | 45 | 9 | 38 | 21 | 55 | 8 | 34 | 20 | 25 | 2 | 49 | 14 | 52 | 5 | 28 | 17 | 32 | 2 | 7 | 14 | 12 |
| 5 | 4 | 38 | 17 | 21 | 2 | 9 | 14 | 20 | 10 | 8 | 22 | 25 | 9 | 8 | 20 | 59 | 3 | 29 | 15 | 27 | 6 | 1 | 18 | 6 | 2 | 41 | 14 | 51 |
| 6 | 5 | 14 | 18 | 1 | 2 | 45 | 15 | 0 | 10 | 40 | 23 | 1 | 9 | 44 | 21 | 36 | 4 | 7 | 16 | 6 | 6 | 35 | 18 | 41 | 3 | 20 | 15 | 31 |
| 7 | 5 | 56 | 18 | 47 | 3 | 23 | 15 | 43 | 11 | 18 | 23 | 44 | 10 | 25 | 22 | 24 | 4 | 51 | 16 | 54 | 7 | 17 | 19 | 29 | 4 | 10 | 16 | 11 |
| 8 | 6 | 44 | 19 | 33 | 4 | 19 | 16 | 37 | 12 | 7 | 12 | 7 | 11 | 18 | 23 | 21 | 5 | 37 | 17 | 46 | 8 | 3 | 20 | 18 | 5 | 3 | 17 | 11 |
| 9 | 7 | 40 | 20 | 38 | 5 | 21 | 17 | 44 | 0 | 38 | 13 | 7 | 12 | 22 | 12 | 22 | 6 | 19 | 18 | 45 | 8 | 56 | 21 | 39 | 5 | 59 | 18 | 16 |
| 10 | 8 | 43 | 21 | 44 | 6 | 32 | 18 | 57 | 1 | 46 | 14 | 25 | 0 | 31 | 13 | 35 | 7 | 25 | 19 | 49 | 9 | 54 | 22 | 27 | 7 | 4 | 19 | 25 |
| 11 | 9 | 57 | 22 | 57 | 7 | 44 | 20 | 9 | 3 | 5 | 15 | 46 | 1 | 50 | 14 | 43 | 8 | 27 | 21 | 9 | 11 | 0 | 23 | 31 | 8 | 1 | 20 | 31 |
| 12 | 11 | 17 | | | 8 | 48 | 21 | 14 | 4 | 21 | 17 | 1 | 3 | 2 | 15 | 42 | 9 | 36 | 22 | 24 | 12 | 9 | | | 9 | 7 | 21 | 32 |
| 13 | 0 | 2 | 12 | 25 | 9 | 45 | 22 | 12 | 5 | 31 | 18 | 6 | 4 | 5 | 16 | 35 | 10 | 40 | 23 | 25 | 0 | 36 | 13 | 9 | 9 | 53 | 22 | 31 |
| 14 | 0 | 58 | 13 | 23 | 10 | 38 | 23 | 6 | 6 | 30 | 19 | 1 | 5 | 4 | 17 | 28 | 11 | 38 | | | 1 | 39 | 14 | 6 | 10 | 33 | 23 | 12 |
| 15 | 1 | 49 | 14 | 16 | 11 | 28 | 23 | 56 | 7 | 24 | 19 | 54 | 5 | 56 | 18 | 24 | 0 | 28 | 12 | 33 | 2 | 32 | 15 | 1 | 11 | 31 | | |
| 16 | 2 | 37 | 15 | 6 | | | 12 | 16 | 8 | 24 | 20 | 41 | 6 | 49 | 19 | 0 | 1 | 25 | 13 | 17 | 3 | 29 | 15 | 52 | 0 | 4 | 12 | 22 |
| 17 | 3 | 23 | 15 | 53 | 0 | 45 | 13 | 3 | 9 | 1 | 21 | 29 | 7 | 40 | 19 | 46 | 2 | 4 | 14 | 3 | 4 | 19 | 16 | 40 | 0 | 56 | 23 | 11 |
| 18 | 4 | 8 | 16 | 41 | 1 | 32 | 13 | 48 | 9 | 48 | 22 | 16 | 8 | 28 | 20 | 31 | 2 | 57 | 14 | 47 | 5 | 10 | 17 | 24 | 1 | 43 | 14 | 1 |
| 19 | 4 | 51 | 17 | 29 | 2 | 19 | 14 | 33 | 10 | 35 | 23 | 0 | 9 | 15 | 21 | 16 | 3 | 46 | 15 | 34 | 5 | 56 | 18 | 11 | 2 | 25 | 14 | 51 |
| 20 | 5 | 26 | 18 | 17 | 3 | 7 | 15 | 22 | 11 | 17 | 23 | 44 | 10 | 2 | 22 | 2 | 4 | 32 | 16 | 28 | 6 | 43 | 19 | 2 | 3 | 28 | 15 | 41 |
| 21 | 6 | 33 | 19 | 7 | 3 | 57 | 16 | 14 | 12 | 0 | | | 10 | 51 | 22 | 54 | 5 | 10 | 17 | 14 | 7 | 32 | 19 | 54 | 4 | 27 | 16 | 41 |
| 22 | 7 | 13 | 20 | 0 | 4 | 51 | 17 | 14 | 0 | 28 | 12 | 46 | 11 | 47 | 23 | 54 | 5 | 55 | 17 | 55 | 8 | 22 | 20 | 50 | 5 | 25 | 17 | 41 |
| 23 | 8 | 8 | 20 | 58 | 5 | 55 | 18 | 23 | 1 | 21 | 13 | 46 | 12 | 51 | 22 | 51 | 6 | 47 | 18 | 51 | 9 | 11 | 21 | 55 | 6 | 30 | 18 | 51 |
| 24 | 9 | 15 | 22 | 6 | 7 | 4 | 19 | 37 | 2 | 25 | 14 | 55 | 1 | 10 | 14 | 0 | 7 | 59 | 20 | 10 | 10 | 17 | 23 | 4 | 7 | 41 | 20 | 11 |
| 25 | 10 | 34 | 23 | 14 | 8 | 10 | 20 | 43 | 3 | 37 | 16 | 11 | 2 | 25 | 15 | 3 | 9 | 15 | 21 | 45 | 11 | 31 | | | 8 | 49 | 21 | 2 |
| 26 | 11 | 44 | | | 9 | 7 | 21 | 39 | 4 | 48 | 17 | 18 | 3 | 30 | 15 | 55 | 10 | 24 | 22 | 46 | 0 | 18 | 12 | 40 | 9 | 41 | 22 | 1 |
| 27 | 0 | 10 | 12 | 40 | 9 | 57 | 22 | 26 | 5 | 48 | 18 | 11 | 4 | 25 | 16 | 40 | 11 | 14 | 23 | 32 | 1 | 10 | 13 | 32 | 10 | 24 | 22 | 51 |
| 28 | 0 | 59 | 13 | 27 | 10 | 38 | 23 | 5 | 6 | 35 | 18 | 56 | 5 | 12 | 17 | 20 | 12 | 52 | | | 2 | 9 | 14 | 18 | 10 | 55 | 23 | 3 |
| 29 | 1 | 40 | 14 | 9 | 11 | 17 | 23 | 43 | 7 | 15 | 19 | 33 | 5 | 54 | 17 | 57 | 0 | 11 | 12 | 25 | 2 | 47 | 15 | 2 | 11 | 30 | | |
| 30 | 2 | 19 | 14 | 46 | 12 | 51 | | | 7 | 53 | 20 | 7 | 6 | 34 | 18 | 33 | 0 | 49 | 12 | 53 | 3 | 26 | 15 | 41 | 0 | 11 | 12 | |
| 31 | 2 | 51 | 15 | 21 | 0 | 14 | 12 | 24 | 8 | 22 | 20 | 35 | 7 | 9 | 19 | 5 | 1 | 18 | 13 | 31 | 3 | 58 | 16 | 4 | 0 | 39 | 22 | 31 |

| Place | ft. 1 | ft. 1 | ft. 1 | ft. 1 | ft. 1 | ft. 1 | ft. 1 | ft. 1 | ft. 1 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 4/1 | 20 | 9 | 26 | 3 | 33 | 1 | 20 | 20 | 9 |
| Neap | 17 | 4 | 20 | 0 | 32 | 7 | 15 | 4 | 8 |

LISTING SOUTHERN and SETTING of PLANETS (MOON - 12/)

| D | MERCURY ♀ | | | VENUS ♀ | | |
|----|-----------|--------|------|---------|--------|------|
| | Rises | Souths | Sets | Rises | Souths | Sets |
| 5 | | | | | | |
| 12 | | | | | | |
| 19 | | | | | | |
| 26 | | | | | | |
| 5 | | | | | | |
| 12 | | | | | | |
| 19 | | | | | | |
| 26 | | | | | | |
| 5 | | | | | | |
| 12 | | | | | | |
| 19 | | | | | | |
| 26 | | | | | | |
| 5 | | | | | | |
| 12 | | | | | | |
| 19 | | | | | | |
| 26 | | | | | | |

6] FEBRUARY XXVIII DAYS. [1930.

| DAY OF | | Fasts and Festivals Remarkable Days—Events | TIME SET | | DAYS | |
|--------|----|--|----------|-------|-------------|---------------|
| Mo. | W. | | Hours | Set. | of the year | total of year |
| 1 | S | "Unrestricted" submarine warfare, 1917 | 7 41 | 16 47 | 32 | 333 |
| 2 | S | Purification 4th Sun aft Epiphany Candlemas | 7 40 | 16 48 | 33 | 332 |
| 3 | S | " | 7 39 | 16 50 | 34 | 331 |
| 4 | S | " | 7 38 | 16 51 | 35 | 330 |
| 5 | S | " | 7 37 | 16 52 | 36 | 329 |
| 6 | Th | Sir Henry Irving born 1838, died Oct 13 1905 | 7 36 | 16 53 | 37 | 328 |
| 7 | F | Charles Dickens born 1812 died June 9 1870 | 7 35 | 16 54 | 38 | 327 |
| 8 | S | Half Quarter Day Mary Queen of Scots d 1587 | 7 34 | 16 55 | 39 | 326 |
| 9 | S | 5th Sunday after Epiphany Lord Carson b 1854 | 7 33 | 16 56 | 40 | 325 |
| 10 | M | Sobraon 1846 Lord Lister "antiseptics," d 1912 | 7 32 | 16 57 | 41 | 324 |
| 11 | Tu | Th. mas. - - - | 7 31 | 16 58 | 42 | 323 |
| 12 | W | " | 7 30 | 16 59 | 43 | 322 |
| 13 | Th | " | 7 29 | 17 00 | 44 | 321 |
| 14 | F | St Vincent, 1797 [1900] | 7 28 | 17 01 | 45 | 320 |
| 15 | S | Sir Bamster Fletcher P. R. I. A. b 1866 Kimberley, | 7 27 | 17 02 | 46 | 319 |
| 16 | S | Septuagesima Sir Edward Clarke, K.C., born, 1841 | 7 26 | 17 03 | 47 | 318 |
| 17 | M | Meeanee 1843 Ancre 1917 | 7 25 | 17 04 | 48 | 317 |
| 18 | Tu | Na. - - - | 7 24 | 17 05 | 49 | 316 |
| 19 | W | Da. - - - | 7 23 | 17 06 | 50 | 315 |
| 20 | Th | Ad. - - - | 7 22 | 17 07 | 51 | 314 |
| 21 | F | Rt. - - - | 7 21 | 17 08 | 52 | 313 |
| 22 | S | Ge. - - - Lord Baden Powell b 1857 | 7 20 | 17 09 | 53 | 312 |
| 23 | S | Septuagesima Samuel Pepys, diarist, b 1632 | 7 19 | 17 10 | 54 | 311 |
| 24 | M | St Matthias - - - | 7 18 | 17 11 | 55 | 310 |
| 25 | Tu | " | 7 17 | 17 12 | 56 | 309 |
| 26 | W | " | 7 16 | 17 13 | 57 | 308 |
| 27 | Th | " | 7 15 | 17 14 | 58 | 307 |
| 28 | F | James Payn, novelist, b 1830 Ladysmith, 1900 | 7 14 | 17 15 | 59 | 306 |

PHASES OF THE MOON

| | |
|-------------------|-----------------|
| First Quarter | 6/ 17h. 25.8 n. |
| Full Moon | 13 8 28.6 |
| Last Quarter | 20 8 44.4 |
| New Moon | 28 13 32.7 |
| Perigee 21/ 13.04 | 222 370 miles. |
| Apogee 25/ 0.5h | 252 370 " |

*Mean Longitude of Asc. Node, February 1 = 37° 16'

MONTHLY NOTES

Feb 1 Thevant and Paulton shooting ends
 — 7 to 10 Buchanan's "at Cold Period"
 HALF QUARTER DAYS are—Feb 8 May 9
 Aug. 11 and Nov. 11
 SCOTTISH LEPA (QUARTER) DAYS are—Feb 2,
 May 15 Aug. 1, and Nov. 11

| IRONMASTER QUARTERLY MEETINGS 1930 | | Jan | Apr | July | Oct |
|------------------------------------|----|-----|-----|------|-----|
| Birmingham | TU | 7 | 8 | 5 | 7 |
| Wolverhampton | W | 8 | 9 | 6 | 8 |
| Leeds | TH | 9 | 10 | 7 | 9 |
| Sheffield | F | 10 | 11 | 8 | 10 |
| Liverpool | S | 11 | 12 | 9 | 11 |

RAIN FELL AT GREENWICH IN FEB, 1929
 on 8 days, total fall 0.51 inch, below the
 average by 2.08 inch.

| THE SUN (Mean Noon) | | | | | | | | | | MEMORANDA | |
|---------------------|-------|------|----------|---------------|----------|-----------|----------|----------|----|-----------|--|
| Equal on at Time | | | | | | | | | | | |
| Add to App Time | | Subt | | Apparent Time | | True Time | | At L | | | |
| J. H. | | A. | | M. A. | | M. A. | | M. A. | | | |
| 1 | 13 40 | 0 35 | 20 07 32 | 10 21 | 17 13 45 | 0 73 | 20 43 52 | 1 15 36 | 2 | | |
| 2 | 13 48 | 0 32 | 21 1 37 | 10 17 | 16 55 3 | 0 72 | 20 47 47 | 15 11 40 | 3 | | |
| 3 | 13 55 | 0 28 | 21 5 40 | 10 11 | 16 38 9 | 0 73 | 20 51 45 | 15 7 44 | 4 | | |
| 4 | 14 1 | 0 25 | 21 9 43 | 10 10 | 16 21 3 | 0 74 | 20 55 42 | 15 3 48 | 5 | | |
| 5 | 14 7 | 0 21 | 21 13 45 | 10 07 | 16 3 3 | 0 75 | 20 59 38 | 14 59 52 | 6 | | |
| 6 | 14 12 | 0 18 | 21 17 47 | 10 03 | 15 45 0 | 0 77 | 21 3 35 | 14 55 56 | 7 | | |
| 7 | 14 15 | 0 14 | 21 21 47 | 10 00 | 15 26 5 | 0 78 | 21 7 31 | 14 52 0 | 8 | | |
| 8 | 14 18 | 0 11 | 21 25 47 | 9 57 | 15 7 7 | 0 79 | 21 11 28 | 14 48 4 | 9 | | |
| 9 | 14 22 | 0 07 | 21 29 45 | 9 53 | 14 48 7 | 0 80 | 21 15 25 | 14 44 8 | 10 | | |
| 10 | 14 22 | 0 04 | 21 33 43 | 9 50 | 14 29 4 | 0 81 | 21 19 21 | 14 40 13 | 11 | | |
| 11 | 14 23 | 0 01 | 21 37 40 | 9 47 | 14 9 9 | 0 82 | 21 23 18 | 14 36 17 | 12 | | |
| 12 | 14 23 | 0 01 | 21 41 37 | 9 43 | 13 50 2 | 0 83 | 21 27 14 | 14 32 21 | 13 | | |
| 13 | 14 22 | 0 06 | 21 45 32 | 9 40 | 13 30 2 | 0 84 | 21 31 11 | 14 28 25 | 14 | | |
| 14 | 14 20 | 0 09 | 21 49 27 | 9 37 | 13 10 0 | 0 85 | 21 35 7 | 14 24 29 | 15 | | |
| 15 | 14 17 | 0 12 | 21 53 21 | 9 34 | 12 49 0 | 0 85 | 21 39 4 | 14 20 33 | 16 | | |
| 16 | 14 14 | 0 15 | 21 57 15 | 9 31 | 12 29 0 | 0 86 | 21 43 0 | 14 16 37 | 17 | | |
| 17 | 14 10 | 0 18 | 21 5 10 | 9 28 | 12 8 2 | 0 87 | 21 46 57 | 14 12 41 | 18 | | |
| 18 | 14 6 | 0 20 | 21 4 59 | 9 25 | 11 47 2 | 0 88 | 21 50 54 | 14 8 45 | 19 | | |
| 19 | 14 1 | 0 23 | 21 8 51 | 9 22 | 11 26 0 | 0 89 | 21 54 50 | 14 4 49 | 20 | | |
| 20 | 13 55 | 0 26 | 21 12 41 | 9 19 | 11 4 5 | 0 89 | 21 58 47 | 14 0 53 | 21 | | |
| 21 | 13 48 | 0 29 | 21 16 32 | 9 17 | 10 43 0 | 0 90 | 22 2 43 | 13 56 57 | 22 | | |
| 22 | 13 41 | 0 31 | 21 20 21 | 9 14 | 10 21 3 | 0 91 | 22 6 40 | 13 53 1 | 23 | | |
| 23 | 13 33 | 0 34 | 21 24 10 | 9 12 | 9 59 4 | 0 92 | 22 10 36 | 13 49 6 | 24 | | |
| 24 | 13 25 | 0 36 | 21 27 58 | 9 09 | 9 37 4 | 0 92 | 22 14 33 | 13 45 10 | 25 | | |
| 25 | 13 16 | 0 39 | 21 31 45 | 9 07 | 9 15 2 | 0 93 | 22 18 29 | 13 41 14 | 26 | | |
| 26 | 13 6 | 0 41 | 21 35 32 | 9 05 | 8 52 9 | 0 93 | 22 22 26 | 13 37 18 | 27 | | |
| 27 | 12 56 | 0 43 | 21 39 19 | 9 02 | 8 30 5 | 0 94 | 22 26 23 | 13 33 22 | 28 | | |
| 28 | 12 46 | 0 46 | 21 43 5 | 9 00 | 8 7 9 | 0 94 | 22 30 19 | 13 29 26 | 29 | | |

*METEOROLOGICAL OBSERVATIONS FEBRUARY 1929

| H | TEMPERATURE | | | | WIND | RAIN | SUN |
|----|-------------|------|------|--------|------|---------|-------|
| | Fa | M | W | Lo | Dir | Fall | Hours |
| 1 | 52.7 | 43.6 | 39.6 | 29.604 | 4.0 | Dir. tu | 14 |
| 2 | 46.5 | 38.0 | 5 | 29.686 | 1.6 | NNE | 13 |
| 3 | 39.4 | 26.8 | 5 | 29.834 | 1.9 | SE | 8.4 |
| 4 | 35.6 | 22.9 | 5 | 30.053 | 0.0 | Calm | 1.0 |
| 5 | 42.6 | 30.8 | 6 | 109 | 0.1 | W. W. | |
| 6 | 42.5 | 35.1 | 6 | 079 | 0.6 | F | |
| 7 | 36.8 | 30.0 | 5 | 192 | 0.5 | E | |
| 8 | 42.7 | 28.1 | 1 | 30.062 | 0.7 | SEW | 3.2 |
| 9 | 43.8 | 27.9 | 30.1 | 20.054 | 0.6 | SW | 0.8 |
| 10 | 41.2 | 32.2 | 38.9 | 671 | 1.8 | SW | 0.4 |
| 11 | 32.2 | 19.2 | 8 | 790 | 6.5 | ENE | 1.6 |
| 12 | 27.3 | 18.1 | 38.8 | 042 | 5.1 | ENE | 7.6 |
| 13 | 26.2 | 18.5 | 39.0 | 866 | 2.2 | ENE | 4.0 |
| 14 | 27.1 | 15.5 | 3 | 838 | 1.0 | NNE | |
| 15 | 27.9 | 12.0 | 4 | 469 | 0.2 | ENE | 0.6 |
| 16 | 28.9 | 24.7 | 5 | 708 | 0.2 | E | |
| 17 | 29.3 | 19.2 | 6 | 29.086 | 0.2 | E | |
| 18 | 37.0 | 16.0 | 5 | 30.140 | 0.0 | Calm | 3.0 |
| 19 | 33.2 | 27.5 | 5 | 229 | 1.2 | ESE | 0.4 |
| 20 | 41.8 | 24.0 | 5 | 316 | 0.3 | I | 0.9 |
| 21 | 43.9 | 23.7 | 6 | 30.247 | 0.3 | SE | 5.3 |
| 22 | 53.2 | 24.0 | 7 | 29.855 | 0.2 | SE | 4.2 |
| 23 | 46.8 | 33.9 | 39.9 | 522 | 0.3 | SW | |
| 24 | 45.8 | 35.4 | 40.0 | 422 | 0.5 | NE | |
| 25 | 35.4 | 29.3 | 1 | 653 | 2.6 | NEP | |
| 26 | 30.3 | 29.0 | 2 | 29.753 | 8.0 | ENE | 0.7 |
| 27 | 29.8 | 25.3 | 3 | 30.004 | 14.1 | ENE | 3.4 |
| 28 | 26.5 | 20.0 | 40.3 | 30.549 | 1.1 | NE | 2.6 |
| 29 | 27.9 | 26.3 | 39.5 | 29.912 | | | 49.1 |

HELIOGRAPHIC ELEMENTS

| At | Sun's | Center of Disc. | |
|-----|-------|-----------------|-------|
| | | Lat. | Long. |
| Day | Axis. | | |
| 5 | 0 | 0 | 0 |
| 15 | 13° W | 63.9 | 34.2 |
| 25 | 17° S | 6.9 | 206.4 |
| | 20° S | 7.8 | 130.7 |

* The Meteorological D to in these Tables are based upon observations recorded at the Royal Greenwich

(See Note p 4) THE MOON

COURT & ...

| Day of M | At Greenwich daylight | | | | | | | | | | | | | | Age | at |
|----------|-----------------------|-------|-----|-----|------|-----------------|-----|-----|-------------|---------------|-----|-----|----------|-----|-----|-----|
| | Rises | South | | | Sets | Right Ascension | | | Declination | Hourly motion | | | Distance | | | |
| h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m |
| 1 | 9 12 | 14 | 18 | 19 | 37 | 23 | 20 | 20 | 8 | 24 | 55 | 43 | 14 | 55 | 3 | 5 |
| 2 | 9 24 | 14 | 59 | 20 | 48 | 0 | 4 | 4 | 2 | 49 | 65 | 55 | 9 | 15 | 2 | 4 |
| 3 | 9 35 | 15 | 40 | 22 | 1 | 0 | 48 | | 2 | 54 | 57 | 53 | 40 | 15 | 20 | 5 |
| 4 | 9 47 | 16 | 22 | 23 | 15 | 1 | 33 | 17 | 8 | 39 | 5 | 56 | 18 | 15 | 21 | 6 |
| 5 | 10 0 | 17 | 6 | 0 | 32 | 2 | 21 | 0 | 14 | 10 | 8 | 57 | 3 | 15 | 33 | 7 |
| 6 | 10 16 | 17 | 54 | 1 | 54 | 3 | 12 | 21 | 9 | 12 | 5 | 57 | 52 | 15 | 40 | 8 |
| 7 | 10 35 | 18 | 47 | 3 | 19 | 4 | 8 | 16 | 23 | 23 | 9 | 58 | 43 | 16 | 0 | 9 |
| 8 | 11 5 | 19 | 45 | 4 | 41 | 5 | 9 | 5 | 26 | 20 | 5 | 59 | 34 | 16 | 14 | 10 |
| 9 | 11 47 | 20 | 48 | 5 | 53 | 6 | 13 | 59 | 27 | 37 | 7 | 60 | 20 | 16 | 26 | 11 |
| 10 | 12 50 | 21 | 54 | 6 | 49 | 7 | 20 | 59 | 25 | 38 | 2 | 60 | 55 | 16 | 36 | 12 |
| 11 | 14 12 | 22 | 59 | 7 | 27 | 8 | 26 | 57 | 24 | 19 | 8 | 61 | 15 | 16 | 41 | 13 |
| 12 | 15 42 | 0 | 1 | 7 | 53 | 9 | 29 | 56 | 19 | 57 | 5 | 61 | 15 | 15 | 41 | 14 |
| 13 | 17 20 | 0 | 58 | 8 | 13 | 10 | 28 | 48 | 14 | 18 | 6 | 60 | 57 | 16 | 36 | 15 |
| 14 | 18 51 | 1 | 50 | 8 | 29 | 11 | 23 | 44 | 7 | 54 | 5 | 60 | 20 | 16 | 26 | 16 |
| 15 | 20 18 | 2 | 48 | 8 | 43 | 12 | 15 | 37 | 1 | 14 | 59 | 59 | 31 | 16 | 13 | 17 |
| 16 | 21 42 | 3 | 27 | 8 | 56 | 13 | 5 | 37 | 5 | 17 | 08 | 58 | 35 | 15 | 38 | 18 |
| 17 | 23 4 | 4 | 14 | 9 | 10 | 13 | 54 | 54 | 11 | 21 | 0 | 57 | 36 | 15 | 42 | 19 |
| 18 | | | | | | | | | | | | | | | | |
| 19 | 0 24 | 5 | 1 | 9 | 27 | 15 | 34 | 46 | 22 | 10 | 1 | 55 | 55 | 15 | 13 | 21 |
| 20 | 1 43 | 5 | 49 | 9 | 47 | 16 | 20 | 29 | 24 | 33 | 8 | 55 | 10 | 15 | 22 | 2 |
| 21 | 2 57 | 6 | 39 | 10 | 15 | 17 | 19 | 22 | 26 | 46 | 3 | 54 | 38 | 14 | 53 | 21 |
| 22 | 4 6 | 7 | 30 | 10 | 53 | 18 | 12 | 56 | 27 | 48 | 6 | 54 | 16 | 14 | 47 | 24 |
| 23 | 5 3 | 8 | 22 | 11 | 40 | 19 | 6 | 19 | 27 | 51 | 5 | 54 | 4 | 14 | 44 | 25 |
| 24 | 5 49 | 9 | 13 | 11 | 29 | 58 | 37 | 15 | 45 | 45 | 8 | 54 | 0 | 14 | 43 | 26 |
| 25 | 6 22 | 10 | 2 | 12 | 48 | 20 | 9 | 23 | 1 | 9 | 54 | 3 | 14 | 44 | 27 | 5 |
| 26 | 6 47 | 10 | 49 | 15 | 0 | 21 | 3 | 38 | 19 | 48 | 9 | 54 | 13 | 14 | 46 | 28 |
| 27 | 7 0 | 11 | 34 | 16 | 13 | 22 | 24 | 20 | 14 | 47 | 5 | 54 | 28 | 14 | 40 | 29 |
| 28 | 7 20 | 12 | 17 | 7 | 26 | 23 | 9 | 9 | 9 | 39 | 15 | 54 | 47 | 14 | 36 | 30 |

0 45
15 ph. 6m

Feb 6 Ye 153 4 perlor Cou
junct 0

Feb 8 46 J pter a conjunc
tio with 2 3 4

Feb 15 Mere 3 at Greeke t
Elo ation 60 W

Feb 25 Next ne Opposit
D stan e f on Farth a 708 715 coo
ce

Feb 27 121 Nat un n co j i
t on with 2 1 5 2 4

Feb 26 71 Me 51000 ju
t on with 2 4 0

Feb 26 116 Mura in co j n
t on with 2 6 4 0

Feb 28 aff El (re of J pter
Sat III 4601 58

Feb 28 231 Venus n conj ne
t on with 2 2 3 N

The Zo trical E lly may be seen
after s set at the E end of the
mouth the Mno be ng th
abet t f o the sky

In this mo t the Mori g s in
crease 50 n the Afternoon 49 n
Constellat ons near the 4 mer
dian at 22h Aur ka Furne
Orion Ge ul Cass M no Mo
ceros Can s Major A w Can er
Hyd a.

The length of the Day is 12 h. 6 m.

Feb 6 Ve 13 4 perior Con

Feb 8 4h J pter a conjunc

Feb 15 Mere 3 at Grete t

Feb 21 Nept ne Oppositi

Feb 23 12/ Sat un n co j

Feb 26 7/ Me 5 in co j

Feb 28 off E 1/2 of J pter a

Feb 28 23/ Venus n conj ne

The Zolitical L. ht may be seen

after s set at the end of this

mouth the Moo be ng then

In this mo t the Meri 1 g in

Constellat ons near the 4 mer

Orion the 1/2 Caus M no Mo

Hyd a.

APPARENT RIGHT ASCENSION AND DECLINATION OF THE PLANETS AT NOON

| D | ☿ MERCURY | | | | ♀ VENUS | | | | ♂ MARS | | | | ♃ JUPITER | | | | ♄ SATURN | | | | |
|----|-----------|----|----|-----|---------|----|---|-----|--------|----|----|-----|-----------|----|----|-----|----------|----|----|-----|----|
| | h | m | s | sec | h | m | s | sec | h | m | s | sec | h | m | s | sec | h | m | s | sec | |
| 5 | 19 | 35 | 39 | | 21 | 14 | 7 | | 17 | 19 | 6 | | 5 | 30 | 21 | 18 | 1 | 18 | 32 | 22 | 28 |
| 10 | 19 | 48 | 48 | | 21 | 39 | 4 | | 15 | 27 | 3 | | 20 | 22 | 42 | 20 | 29 | 1 | 18 | 35 | 22 |
| 15 | 20 | 7 | 54 | | 19 | 58 | 8 | | 22 | 3 | 31 | | 20 | 37 | 45 | 19 | 34 | 6 | 18 | 37 | 24 |
| 20 | 20 | 31 | 35 | | 19 | 22 | 9 | | 22 | 27 | 30 | | 20 | 53 | 41 | 18 | 34 | 8 | 18 | 39 | 20 |
| 25 | 20 | 57 | 12 | | 18 | 21 | 1 | | 22 | 51 | 5 | | 9 | 26 | 17 | 30 | 0 | 22 | 42 | 21 | 4 |

THE SUN AND PLANETS

| HORIZONTAL PARALLAX. | | | | | | | ANGULAR SEMIDIAMETER. | | | | | | | URANUS. | | | NEPTUNE. | | |
|----------------------|---|----|----|-----|---|---|-----------------------|---|---|-----|----|----|----|---------|---|----|----------|-----|--|
| D. | h | m | s | sec | h | m | h | m | s | sec | h | m | s | sec | h | m | s | sec | |
| 5 | 8 | 53 | 10 | 9 | 5 | 1 | 3 | 8 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | |
| 10 | 8 | 51 | 9 | 5 | 1 | 3 | 8 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 15 | 8 | 50 | 7 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 20 | 8 | 49 | 5 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 25 | 8 | 48 | 3 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 30 | 8 | 47 | 1 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 35 | 8 | 46 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 40 | 8 | 45 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 45 | 8 | 44 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 50 | 8 | 43 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 55 | 8 | 42 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 60 | 8 | 41 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 65 | 8 | 40 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 70 | 8 | 39 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 75 | 8 | 38 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 80 | 8 | 37 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 85 | 8 | 36 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 90 | 8 | 35 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 95 | 8 | 34 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 100 | 8 | 33 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 105 | 8 | 32 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 110 | 8 | 31 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 115 | 8 | 30 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 120 | 8 | 29 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 125 | 8 | 28 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 130 | 8 | 27 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 135 | 8 | 26 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 140 | 8 | 25 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 145 | 8 | 24 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 150 | 8 | 23 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 155 | 8 | 22 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 160 | 8 | 21 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 165 | 8 | 20 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 170 | 8 | 19 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 175 | 8 | 18 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 180 | 8 | 17 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 185 | 8 | 16 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 190 | 8 | 15 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 195 | 8 | 14 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 200 | 8 | 13 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 205 | 8 | 12 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 210 | 8 | 11 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 215 | 8 | 10 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 220 | 8 | 9 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 225 | 8 | 8 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 230 | 8 | 7 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 235 | 8 | 6 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 240 | 8 | 5 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 245 | 8 | 4 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 250 | 8 | 3 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 255 | 8 | 2 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 260 | 8 | 1 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 265 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 270 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 275 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 280 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 285 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 290 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 295 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 300 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 305 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 310 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 315 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 320 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 325 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 330 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 335 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 340 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 345 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 350 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 355 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |
| 360 | 8 | 0 | 0 | 5 | 1 | 3 | 9 | 1 | 0 | 8 | 16 | 15 | 4 | 1 | 9 | 10 | 18 | | |

Feb 15. Uran

Time of High Water at the undermentioned Places—

| No. | Lowest Pt. W. | | L. 1890 | | E. 1891 | | In m. 1892 | | C. 1893 | | L. 1894 | | H. 1895 | |
|-----|---------------|-------|---------|-------|---------|-------|------------|-------|---------|-------|---------|-------|---------|-------|
| | Morn. | After | Morn. | After | Morn. | After | Morn. | After | Morn. | After | Morn. | After | Morn. | After |
| 1 | 3 21 | 15 54 | 0 40 | 18 59 | 8 54 | 21 10 | 7 40 | 19 35 | 1 54 | 14 7 | 4 33 | 16 38 | 1 10 | 13 |
| 2 | 3 51 | 16 27 | 1 18 | 13 28 | 9 24 | 21 38 | 8 10 | 20 5 | 2 28 | 14 37 | 5 7 | 17 7 | 1 35 | 13 2 |
| 3 | 4 20 | 16 57 | 1 48 | 13 59 | 9 53 | 22 7 | 8 40 | 20 35 | 3 4 | 15 8 | 5 35 | 17 38 | 2 5 | 14 1 |
| 4 | 4 50 | 17 30 | 2 19 | 14 30 | 10 20 | 22 37 | 9 10 | 21 10 | 3 36 | 15 44 | 6 5 | 18 11 | 2 36 | 14 1 |
| 5 | 5 22 | 18 5 | 2 55 | 15 9 | 10 50 | 23 8 | 9 45 | 21 50 | 4 10 | 16 23 | 6 39 | 18 51 | 3 14 | 15 2 |
| 6 | 6 4 | 18 47 | 3 30 | 15 56 | 11 25 | 23 50 | 10 20 | 22 42 | 4 46 | 16 59 | 7 21 | 19 39 | 3 59 | 16 1 |
| 7 | 6 55 | 19 41 | 4 30 | 16 59 | 12 16 | | 11 25 | 23 50 | 5 23 | 17 44 | 8 13 | 20 39 | 4 59 | 17 1 |
| 8 | 7 59 | 20 49 | 5 40 | 18 20 | 0 51 | 13 34 | | 12 40 | 6 19 | 18 51 | 9 13 | 21 48 | 6 8 | 18 1 |
| 9 | 9 21 | 22 16 | 7 9 | 19 50 | 2 19 | 15 23 | 1 16 | 14 6 | 7 35 | 20 24 | 10 31 | 23 11 | 7 21 | 20 |
| 10 | 10 58 | 23 43 | 8 30 | 21 6 | 3 55 | 16 44 | 2 45 | 15 23 | 8 50 | 22 11 | 11 47 | | 8 39 | 21 1 |
| 11 | | 24 17 | 9 38 | 22 9 | 5 17 | 17 57 | 3 58 | 16 24 | 10 19 | 23 20 | 0 31 | 24 59 | 9 40 | 22 1 |
| 12 | 0 47 | 13 17 | 10 34 | 22 59 | 6 23 | 18 56 | 4 58 | 17 25 | 11 25 | | 1 33 | 13 58 | 10 33 | 23 |
| 13 | 1 40 | 14 8 | 11 20 | 23 6 | 7 17 | 19 45 | 5 50 | 18 4 | 0 16 | 12 19 | 2 24 | 14 48 | 11 23 | 23 1 |
| 14 | 2 26 | 14 54 | | 23 6 | 8 4 | 20 30 | 6 40 | 18 49 | 1 8 | 13 2 | 3 13 | 15 33 | | 23 1 |
| 15 | 3 9 | 15 39 | 0 32 | 12 47 | 8 48 | 21 12 | 7 25 | 19 32 | 1 50 | 13 47 | 4 2 | 16 17 | 0 38 | 12 1 |
| 16 | 3 51 | 16 23 | 1 15 | 13 28 | 9 22 | 21 54 | 8 9 | 20 14 | 2 36 | 14 35 | 4 44 | 17 1 | 1 20 | 13 1 |
| 17 | 4 32 | 17 5 | 1 46 | 14 9 | 10 9 | 22 32 | 8 49 | 20 52 | 3 19 | 15 19 | 5 28 | 17 42 | 2 2 | 14 1 |
| 18 | 5 12 | 17 45 | 2 38 | 14 51 | 10 46 | 23 7 | 9 28 | 21 34 | 3 58 | 15 56 | 6 8 | 18 22 | 2 47 | 15 |
| 19 | 5 50 | 18 25 | 3 19 | 15 24 | 11 19 | 23 41 | 10 7 | 22 16 | 4 35 | 16 33 | 6 48 | 19 10 | 3 36 | 16 |
| 20 | 6 32 | 19 7 | 4 5 | 16 15 | 12 57 | | 10 51 | 23 10 | 5 5 | 17 5 | 7 36 | 20 7 | 4 30 | 17 |
| 21 | 7 20 | 19 57 | 5 0 | 17 31 | 0 19 | 22 43 | 11 45 | | 5 44 | 17 54 | 8 32 | 21 9 | 5 34 | 18 1 |
| 22 | 8 23 | 21 1 | 6 12 | 19 0 | 1 14 | 23 48 | 0 20 | 22 59 | 6 45 | 19 26 | 9 39 | 22 34 | 6 51 | 19 1 |
| 23 | 9 45 | 22 24 | 7 25 | 20 25 | 2 33 | 25 21 | 1 48 | 24 20 | 8 23 | 22 17 | 11 0 | 23 57 | 8 10 | 20 1 |
| 24 | 11 28 | 23 46 | 8 45 | 21 25 | 4 8 | 16 48 | 3 8 | 15 25 | 9 54 | 22 31 | 12 15 | | 9 13 | 21 1 |
| 25 | | 24 25 | 9 41 | 22 14 | 5 15 | 17 54 | 4 6 | 16 16 | 10 51 | 23 17 | 1 0 | 23 10 | 10 2 | 22 1 |
| 26 | 0 43 | 12 15 | 10 25 | 22 50 | 6 19 | 18 40 | 4 54 | 17 0 | 11 32 | 23 54 | 1 46 | 23 51 | 10 41 | 23 1 |
| 27 | 1 29 | 13 54 | 11 0 | 23 4 | 7 2 | 19 17 | 5 35 | 17 36 | 12 3 | | 2 22 | 24 30 | 11 14 | 23 1 |
| 28 | 1 59 | 14 25 | 12 14 | 23 54 | 7 34 | 19 46 | 6 12 | 18 11 | 0 30 | 22 35 | 3 1 | 25 7 | 11 42 | |

The district is a d. l. in photo the Almsack is those who high there may be expected. The water is d. l. the North Sea is d. l. with meter w. l. heavy is a d. l. the cou. is drained by the Than. may cause a high rise of l. r. d. l. low l. y. r. l. c. l. district is to be flooded.

PLE OF PLANETS (N. 1891-1930)

| | MERCURY ♀ | | VENUS ♀ | |
|----|------------------|------------------|------------------|------------------|
| | Rises | Setts | Rises | Setts |
| 1 | h. a. l. m. 1 m. | h. a. l. m. 1 m. | h. a. l. m. 1 m. | h. a. l. m. 1 m. |
| 2 | 6 25 | 10 47 15 8 | 7 45 | 12 22 16 37 |
| 3 | 6 24 | 10 30 14 47 | 7 38 | 12 19 17 0 |
| 16 | 6 23 | 10 29 14 45 | 7 29 | 12 25 17 23 |
| 23 | 6 24 | 10 37 15 0 | 7 18 | 12 31 17 45 |

| | MARS ♂ | | JUPITER ♀ | |
|----|------------------|------------------|------------------|------------------|
| | Rises | Setts | Rises | Setts |
| D | h. a. l. m. 1 m. | h. a. l. m. 1 m. | h. a. l. m. 1 m. | h. a. l. m. 1 m. |
| 2 | 7 4 | 11 8 15 12 | 11 32 | 19 29 3 27 |
| 9 | 6 52 | 11 3 15 35 | 11 5 | 19 2 3 0 |
| 16 | 6 39 | 10 58 15 18 | 10 58 | 18 36 2 31 |
| 23 | 6 25 | 10 53 15 21 | 10 52 | 18 22 2 9 |

MORNING AND EVENING STARS

☿ MERCURY is a morning star throughout the year, but rises so early enough to be a naked eye object.

♀ VENUS at either or of almost all the 61 rises and sets nearly with the Sun.

♂ MARS in Capricornus is a morning star, but too near to the Sun to be seen.

♂ JUPITER in Libra is a prominent object the evening sky a 1 for an hour or two after midnight. Magnitude = 2.0.

♂ SATURN in the constellation Scaparius is a morning star rising two hours before the Sun the S. E. by E. Magnitude = 2.8.

| DAY OF | | Fasts and Festivals Remarkable Days—Events SEE'S LONDON 1897 and '98 | THE YEAR | | DAYS | |
|--------|----|--|----------|-------|----------------|----------------|
| M | W | | Runs | Sets | of the Year | of the Year |
| 1 | S | ST DAVID'S DAY Gen Sir Donald Stewart b 1824 | 6 49 | 17 37 | 60 | 305 |
| 2 | S | Quinquagesima Shrove Sunday | 6 47 | 17 39 | 61 | 304 |
| 3 | M | Robert Adam architect died, 1792 [1915] | 6 44 | 17 42 | 62 | 303 |
| 4 | Tu | Shrove Tue-day W Willett, "Daylight Saving" d | 6 42 | 17 43 | 63 | 302 |
| 5 | W | Ash Wednesday Sir C W Thomson b 1830 | 6 40 | 17 44 | 64 | 301 |
| 6 | Th | F Beaumont dramatist d 1616 Eliza Browning b 1809 | 6 38 | 17 46 | 65 | 300 |
| 7 | F | Sir J Herschel astronomer b 1792 d May 11 1871 | 6 36 | 17 48 | 66 | 299 |
| 8 | S | Aboukir 1801 Dean Merivale born, 1808 | 6 33 | 17 50 | 67 | 298 |
| 9 | S | Tridagresima 1st Sunday in Lent | 6 31 | 17 51 | 68 | 297 |
| 10 | M | Battle of Neuve Chapelle commenced, 1915 | 6 29 | 17 53 | 69 | 296 |
| 11 | Tu | Gen Sir J Outram d 1863 Baghdad captured, 1917 | 6 27 | 17 55 | 70 | 295 |
| 12 | W | Bank of England first issued £1 notes 1707 | 6 24 | 17 57 | 71 | 294 |
| 13 | Th | Field Marshal Viscount Plumer, G C B born, 1857 | 6 22 | 17 58 | 72 | 293 |
| 14 | F | Box 1890 Admiral John Boscawen shot 1757 | 6 20 | 18 0 | 73 | 292 |
| 15 | S | Dam Widge Kendal actress, born 1849 | 6 18 | 18 2 | 74 | 291 |
| 16 | S | 2nd Sunday in Lent | 6 15 | 18 3 | 75 | 290 |
| 17 | M | ST PATRICK'S DAY Gen Sir Edward Cust b 1794 | 6 13 | 18 5 | 76 | 289 |
| 18 | Tu | Duchess of Argyll b 1848 Rt Hon N Chamberlain b | 6 11 | 18 7 | 77 | 288 |
| 19 | W | Dr David Livingstone, explorer, born, 1813 [1869] | 6 9 | 18 8 | 78 | 287 |
| 20 | Th | Marshal Foch, G V, died, 1929, born, Oct 2, 1851 | 6 6 | 18 10 | 79 | 286 |
| 21 | F | John Law, financier, died, 1729 Alexandria, 1801 | 6 4 | 18 12 | 80 | 285 |
| 22 | S | Colonial Stamp Act, 1765 | 6 2 | 18 14 | 81 | 284 |
| 23 | S | 3rd Sunday in Lent Novara, 1849 | 5 59 | 18 15 | 82 | 283 |
| 24 | M | Longfellow d 1882 SS Sussex torpedoed, 1916 | 5 57 | 18 17 | 83 | 282 |
| 25 | Tu | Annunciation Lady Day Quarter Day | 5 55 | 18 19 | 84 | 281 |
| 26 | W | Rt Hon Cecil J Rhodes d 1902 Baghdadieh, 1918 | 5 53 | 18 20 | 85 | 280 |
| 27 | Th | Thomas Tyrwhitt b 1730 Rt Hon J R Clynes b 1869 | 5 50 | 18 22 | 86 | 279 |
| 28 | F | Sir J W Bazalgette (London Main Drainage), b 1819 | 5 48 | 18 24 | 87 | 278 |
| 29 | S | James Rennell, geographer, died 1830 | 5 46 | 18 25 | 88 | 277 |
| 30 | S | 4th Sunday in Lent Sicilian Vespers, 1283 | 5 43 | 18 27 | 89 | 276 |
| 31 | M | Charlotte Bronte d 1855 Duke of Gloucester b 1900 | 5 41 | 18 29 | 90 | 275 |

PHASES OF THE MOON

| | | | |
|-----------------|-----|---|-------|
| ☾ First Quarter | 8 L | 9 | 0 3 0 |
| ☾ | 1 | 0 | 0 3 0 |

MONTHLY NOTES

PAV FELL AT OLEENWICH IV MAR, 1929
on a day, total fall 0.03 inch; below the
(average by 1.75 inch)

31 Financial Year 1930-31 ends for Treasury

1930]

MARCH THIRD MONTH

[1

| Signature of T. Mc. | | THE SUN (Mean Noon) | | Universal Time at Noon | | Mean T. & P. d. of the Month | | MEMORANDA |
|---------------------|------------|---------------------------|----------------------|------------------------|---------------------|------------------------------|----------|-----------|
| Add to App. Time | W. V. Var. | Apparent Equ. Area. Moon. | Hourly Var. of R. A. | Apparent Declination | Hourly Var. of Dec. | M. H. P. | M. H. P. | |
| 1 22 34 | 0 48 | 22 45 50 | 9 38 | 7 45 25 | 0 95 | 22 38 26 | 13 25 30 | 1 |
| 2 22 23 | 0 50 | 22 50 35 | 9 36 | 7 42 4 | 0 95 | 22 38 28 | 13 21 34 | 2 |
| 3 22 10 | 0 52 | 22 54 19 | 9 34 | 6 49 4 | 0 96 | 22 48 9 | 13 17 38 | 3 |
| 4 21 58 | 0 54 | 22 58 3 | 9 32 | 6 36 4 | 0 96 | 22 46 5 | 13 13 43 | 4 |
| 5 21 44 | 0 56 | 23 1 46 | 9 30 | 6 23 3 | 0 96 | 22 50 8 | 13 9 47 | 5 |
| 6 21 31 | 0 58 | 23 5 29 | 9 28 | 5 50 1 | 0 97 | 22 53 58 | 13 5 51 | 6 |
| 7 21 17 | 0 00 | 23 9 12 | 9 26 | 5 26 9 | 0 97 | 22 57 55 | 13 1 55 | 7 |
| 8 21 2 | 0 61 | 23 12 54 | 9 24 | 5 3 5 | 0 97 | 23 1 52 | 12 57 59 | 8 |
| 9 20 47 | 0 73 | 23 16 35 | 9 22 | 4 40 1 | 0 98 | 23 5 48 | 12 54 3 | 9 |
| 10 20 32 | 0 65 | 23 20 17 | 9 21 | 4 26 7 | 0 98 | 23 9 45 | 12 50 7 | 10 |
| 11 20 15 | 0 65 | 23 23 58 | 9 20 | 3 53 2 | 0 98 | 23 13 41 | 12 46 11 | 11 |
| 12 20 0 | 0 67 | 23 27 38 | 9 18 | 3 29 6 | 0 98 | 23 17 38 | 12 42 15 | 12 |
| 13 19 44 | 0 69 | 23 31 18 | 9 17 | 3 6 0 | 0 98 | 23 21 34 | 12 38 19 | 13 |
| 14 19 27 | 0 70 | 23 34 58 | 9 16 | 2 42 4 | 0 98 | 23 25 31 | 12 34 23 | 14 |
| 15 19 10 | 0 71 | 23 38 38 | 9 15 | 2 18 7 | 0 99 | 23 29 27 | 12 30 28 | 15 |
| 16 18 53 | 0 72 | 23 42 17 | 9 14 | 1 55 1 | 0 99 | 23 33 24 | 12 26 32 | 16 |
| 17 18 36 | 0 72 | 23 45 57 | 9 13 | 1 31 4 | 0 99 | 23 37 21 | 12 22 36 | 17 |
| 18 18 19 | 0 73 | 23 49 36 | 9 12 | 1 7 7 | 0 99 | 23 41 17 | 12 18 40 | 18 |
| 19 18 1 | 0 74 | 23 53 15 | 9 11 | 0 44 0 | 0 99 | 23 45 14 | 12 14 44 | 19 |
| 20 17 43 | 0 75 | 23 56 53 | 9 11 | 0 20 3 5 | 0 99 | 23 49 10 | 12 10 48 | 20 |
| 21 17 25 | 0 75 | 0 0 32 | 9 10 | 0 3 5 11 | 0 99 | 23 53 7 | 12 6 52 | 21 |
| 22 17 7 | 0 75 | 0 4 10 | 9 10 | 0 27 1 | 0 99 | 23 57 3 | 12 2 56 | 22 |
| 23 16 49 | 0 76 | 0 7 49 | 9 10 | 0 50 8 | 0 99 | 0 1 0 | 12 59 0 | 23 |
| 24 16 31 | 0 76 | 0 11 27 | 9 10 | 1 14 5 | 0 98 | 0 4 56 | 12 55 4 | 24 |
| 25 16 12 | 0 76 | 0 15 5 | 9 09 | 1 38 1 | 0 98 | 0 8 53 | 12 51 8 | 25 |
| 26 15 51 | 0 76 | 0 18 41 | 9 09 | 2 1 7 | 0 98 | 0 12 50 | 12 47 13 | 26 |
| 27 15 33 | 0 76 | 0 22 22 | 9 09 | 2 25 8 | 0 98 | 0 16 46 | 12 43 17 | 27 |
| 28 15 18 | 0 76 | 0 26 0 | 9 09 | 2 48 7 | 0 98 | 0 20 43 | 12 39 22 | 28 |
| 29 14 59 | 0 76 | 0 29 39 | 9 10 | 3 12 1 | 0 98 | 0 24 39 | 12 35 25 | 29 |
| 30 14 41 | 0 76 | 0 33 17 | 9 10 | 3 35 5 | 0 97 | 0 28 36 | 12 31 29 | 30 |
| 31 14 23 | 0 70 | 0 36 55 | 9 10 | 3 58 8 | 0 97 | 0 32 32 | 12 27 33 | 31 |

| | | | | | | |
|----------|------|--------|-----|------|--------|-----|
| 7 50 2 | 30 5 | 279 | 0 3 | E | 4 2 | 26. |
| 8 61 0 | 26 0 | 143 | 0 7 | NE | 9 8 | |
| 9 67 7 | 31 4 | 100 | 0 6 | ENE | 10 3 | 27 |
| 10 65 0 | 31 0 | 043 | 0 1 | CR 1 | 9 4 | |
| 11 65 1 | 30 2 | 070 | 0 5 | NW | 7 6 | 28 |
| 12 48 5 | 35 8 | 267 | 1 4 | NE | 7 8 | |
| 13 43 3 | 35 8 | 127 | 1 0 | ENE | | 29. |
| 14 38 2 | 32 5 | 232 | 1 7 | ENE | | |
| 15 38 3 | 31 4 | 265 | 1 0 | ENF | | 30 |
| 16 43 4 | 29 1 | 199 | 1 6 | ENE | | 31 |
| 17 56 2 | 30 2 | 107 | 0 7 | NF | 0 4 | |
| 18 62 3 | 28 0 | 078 | 0 8 | FNE | 6 0 | |
| 19 43 4 | 30 6 | 30 063 | 0 3 | ENF | 9 7 | |
| 20 69 0 | 30 0 | 29 975 | 0 7 | NW | 3 2 | |
| 21 63 0 | 41 6 | 902 | 1 8 | NW | 4 7 | |
| 22 62 0 | 46 1 | 20 907 | 1 0 | NW | 0 4 | |
| 23 58 3 | 38 0 | 30 070 | 1 0 | NW | 1 7 | |
| 24 61 0 | 34 0 | 146 | 2 0 | NW | 4 2 | |
| 25 62 2 | 44 0 | 115 | 1 0 | NW | 6 6 | |
| 26 62 8 | 41 2 | 260 | 0 6 | NNE | 2 5 | |
| 27 66 7 | 35 6 | 799 | 0 6 | ENF | 5 0 | |
| 28 68 9 | 31 2 | 255 | 1 9 | ENF | 7 7 | |
| 29 68 5 | 33 4 | 334 | 0 5 | ENF | 11 0 | |
| 30 70 3 | 37 0 | 200 | 1 0 | NW | 10 5 | |
| 31 58 9 | 42 5 | 30 012 | 3 3 | NW | 6 9 | |
| Min 55 4 | 38 7 | 30 158 | | | 16 5 2 | |

HELIOGRAPHIC ELEMENTS

| At Noon Day | Gang Axis | Centre of I | |
|-------------|-----------|-------------|------|
| | | Lat. | Lon. |
| 5 | 22 8 W | 7 2 F | |
| 15 | 24 5 | 7 1 | |
| 25 | 25 8 W | 6 8 S | |

(See Note, p. 4)

THE MOON

Cor. figure
1901 of
Jul. termCONJUNCTIONS, ECLIPSES, AND
OTHER CELESTIAL PHENOMENA.

| Day of M | Rises. | | SOUTH. | | Sets. | | At Greenwich Mid. light. | | | | | | | | | | | | Δ | |
|----------|--------|-------|--------|-------|-------|-------|--------------------------|--------------|----------------------|---------------|---------|-------|-------|-------|-------|-------|-------|----|-----|----|
| | h. m. | u. m. | h. m. | u. m. | h. m. | u. m. | Right Ascension. | Declination. | Horizontal Parallax. | Semidiameter. | Number. | h. m. | u. m. | h. m. | u. m. | h. m. | u. m. | | | |
| 1 | 7 | 38 | 12 | 59 | 18 | 38 | 23 | 53 | 27 | 4 | 5 | 05 | 55 | 10 | 15 | 2 | 1 | 20 | 412 | 03 |
| 2 | 7 | 44 | 13 | 40 | 19 | 51 | 0 | 37 | 24 | 1 | 42 | 50 | 55 | 36 | 15 | 9 | 2 | 10 | 420 | 13 |
| 3 | 7 | 55 | 14 | 27 | 21 | 5 | 1 | 22 | 26 | 7 | 32 | 2 | 56 | 5 | 15 | 17 | 3 | 10 | 420 | 32 |
| 4 | 8 | 7 | 15 | 5 | 22 | 22 | 2 | 9 | 25 | 13 | 9 | 1 | 56 | 37 | 15 | 26 | 4 | 17 | 430 | 18 |
| 5 | 8 | 21 | 15 | 51 | 23 | 42 | 3 | 59 | 24 | 18 | 17 | 8 | 57 | 12 | 15 | 35 | 5 | 10 | 432 | 0 |
| 6 | 8 | 39 | 16 | 42 | 1 | 4 | 3 | 53 | 43 | 22 | 39 | 7 | | | | | | | | |
| 7 | 9 | 4 | 17 | 37 | 2 | 27 | 4 | 51 | 17 | 25 | 53 | 8 | | | | | | | | |
| 8 | 9 | 40 | 18 | 35 | 3 | 40 | 5 | 53 | 11 | 27 | 35 | 5 | | | | | | | | |
| 9 | 10 | 33 | 19 | 39 | 4 | 40 | 6 | 57 | 26 | 27 | 37 | 1 | | | | | | | | |
| 10 | 11 | 46 | 20 | 42 | 5 | 27 | 8 | 2 | 50 | 25 | 43 | 2 | | | | | | | | |
| 11 | 12 | 10 | 21 | 43 | 5 | 54 | 9 | 4 | 15 | 22 | 3 | 7 | | | | | | | | |
| 12 | 12 | 14 | 22 | 4 | 6 | 10 | | | | | | | | | | | | | | |
| 13 | 12 | 16 | 23 | | | | | | | | | | | | | | | | | |
| 14 | 12 | 17 | 24 | | | | | | | | | | | | | | | | | |
| 15 | 12 | 19 | 25 | | | | | | | | | | | | | | | | | |
| 16 | 12 | 20 | 25 | | | | | | | | | | | | | | | | | |
| 17 | 12 | 21 | 25 | | | | | | | | | | | | | | | | | |
| 18 | 12 | 23 | 26 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | |

Mar 2, 24h Mercury and Mars
in conjunction Q 05 S
Mar 7 24h Jupiter in con-
junction with 2 3 S
Mar 7 aft Eclipse of Jupiter's

In this month the Moon
increases 68° the Afternoon
52°
Constellations near the 8 mc
dial at 22h Gemini (α)
Minor Monoceros Argo Lynx
Cancer Hydra, Leo Crater

APARENT RIGHT ASCENSION AT

MERCURY VENUS

| MERCURY | | | VENUS | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-------|----|-----------|----|-------|----|-----------|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|
| D. | h. m. | s. | Dec. 1930 | D. | h. m. | s. | Dec. 1930 | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 21 | 26 | 41 | 16 | 47 | 1 | 23 | 14 | 20 | 6 | 27 | 6 | 21 | 25 | 2 | 16 | 20 | 7 | 4 | 24 | 33 | 21 | 10 | 0 | 18 | 42 | 51 | 22 | 20 |
| 7 | 21 | 56 | 29 | 14 | 40 | 9 | 23 | 37 | 18 | 3 | 58 | 2 | 21 | 40 | 27 | 15 | 7 | 1 | 4 | 26 | 42 | 21 | 15 | 8 | 18 | 44 | 25 | 22 | 18 |
| 12 | 22 | 27 | 19 | 12 | 3 | 0 | 0 | 5 | 1 | 25 | 7 | 21 | 55 | 42 | 13 | 49 | 8 | 4 | 29 | 8 | 21 | 22 | 2 | 18 | 45 | 50 | 22 | 17 | |
| 17 | 22 | 39 | 10 | 8 | 53 | 9 | 0 | 22 | 46 | 1 | 7 | 22 | 10 | 47 | 12 | 29 | 1 | 4 | 31 | 50 | 21 | 28 | 9 | 18 | 47 | 6 | 22 | 15 | |
| 22 | 23 | 32 | 6 | 5 | 14 | 8 | 0 | 45 | 27 | 2 | 20 | 5 | 22 | 25 | 43 | 21 | 5 | 5 | 34 | 47 | 21 | 35 | 9 | 18 | 48 | 23 | 22 | 14 | |
| 27 | 0 | 6 | 20 | 1 | 7 | 8 | 1 | 8 | 13 | 0 | 1 | 0 | 22 | 40 | 31 | 9 | 39 | 2 | 4 | 37 | 57 | 21 | 43 | 1 | 18 | 49 | 11 | 22 | 13 |

THE SUN AND PLANETS

| HORIZ. PARALLAX | | | | | | | | | | ANGULAR SEMIDIAMETER | | | | | | | | | | J. PLANES | | | U. APPEND | | | |
|-----------------|----|----|----|----|----|----|----|----|----|----------------------|----|----|----|----|----|----|----|----|----|-----------|----|----|-----------|----|----|----|
| h. | m. | s. | h. | m. | s. | h. | m. | s. | h. | h. | m. | s. | h. | m. | s. | h. | m. | s. | h. | h. | m. | s. | h. | m. | s. | |
| 1 | 0 | 2 | 9 | 1 | 8 | 1 | 2 | 1 | 2 | 0 | 10 | 9 | 8 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 0 | 38 | 1 | 3 | 23 | |
| 7 | 5 | 8 | 7 | 2 | 3 | 2 | 3 | 9 | 1 | 7 | 0 | 8 | 16 | 9 | 2 | 8 | 1 | 18 | 0 | 7 | 2 | 0 | 40 | 7 | 3 | 37 |
| 12 | 8 | 24 | 6 | 7 | 5 | 2 | 4 | 0 | 1 | 7 | 0 | 16 | 6 | 2 | 6 | 5 | 0 | 8 | 1 | 17 | 5 | 7 | 3 | 1 | 3 | 37 |
| 17 | 8 | 24 | 6 | 7 | 5 | 2 | 4 | 0 | 1 | 7 | 0 | 16 | 6 | 2 | 6 | 5 | 0 | 8 | 1 | 17 | 5 | 7 | 3 | 1 | 3 | 37 |
| 22 | 8 | 24 | 6 | 7 | 5 | 2 | 4 | 0 | 1 | 7 | 0 | 16 | 6 | 2 | 6 | 5 | 0 | 8 | 1 | 17 | 5 | 7 | 3 | 1 | 3 | 37 |
| 27 | 8 | 24 | 6 | 7 | 5 | 2 | 4 | 0 | 1 | 7 | 0 | 16 | 6 | 2 | 6 | 5 | 0 | 8 | 1 | 17 | 5 | 7 | 3 | 1 | 3 | 37 |

Mar 17 (TRANS. PLAN. 6h 45m 8

Time of High Water at the undermentioned Places—

| Day | LONDON | | LIVERPOOL | | BIRMINGHAM | | GLASGOW | | CARDIFF | | LONDON | | NEWCASTLE | |
|-----|--------|-------|-----------|-------|------------|-------|---------|-------|---------|-------|--------|-------|-----------|-------|
| | Morn | After | Morn | After | Morn | After | Morn | After | Morn | After | Morn | After | Morn | After |
| 1 | 11 29 | 14 57 | 11 29 | 14 57 | 11 29 | 14 57 | 11 29 | 14 57 | 11 29 | 14 57 | 11 29 | 14 57 | 11 29 | 14 57 |
| 2 | 11 28 | 14 56 | 11 28 | 14 56 | 11 28 | 14 56 | 11 28 | 14 56 | 11 28 | 14 56 | 11 28 | 14 56 | 11 28 | 14 56 |
| 3 | 11 27 | 14 55 | 11 27 | 14 55 | 11 27 | 14 55 | 11 27 | 14 55 | 11 27 | 14 55 | 11 27 | 14 55 | 11 27 | 14 55 |
| 4 | 11 26 | 14 54 | 11 26 | 14 54 | 11 26 | 14 54 | 11 26 | 14 54 | 11 26 | 14 54 | 11 26 | 14 54 | 11 26 | 14 54 |
| 5 | 11 25 | 14 53 | 11 25 | 14 53 | 11 25 | 14 53 | 11 25 | 14 53 | 11 25 | 14 53 | 11 25 | 14 53 | 11 25 | 14 53 |
| 6 | 11 24 | 14 52 | 11 24 | 14 52 | 11 24 | 14 52 | 11 24 | 14 52 | 11 24 | 14 52 | 11 24 | 14 52 | 11 24 | 14 52 |
| 7 | 11 23 | 14 51 | 11 23 | 14 51 | 11 23 | 14 51 | 11 23 | 14 51 | 11 23 | 14 51 | 11 23 | 14 51 | 11 23 | 14 51 |
| 8 | 11 22 | 14 50 | 11 22 | 14 50 | 11 22 | 14 50 | 11 22 | 14 50 | 11 22 | 14 50 | 11 22 | 14 50 | 11 22 | 14 50 |
| 9 | 11 21 | 14 49 | 11 21 | 14 49 | 11 21 | 14 49 | 11 21 | 14 49 | 11 21 | 14 49 | 11 21 | 14 49 | 11 21 | 14 49 |
| 10 | 11 20 | 14 48 | 11 20 | 14 48 | 11 20 | 14 48 | 11 20 | 14 48 | 11 20 | 14 48 | 11 20 | 14 48 | 11 20 | 14 48 |
| 11 | 11 19 | 14 47 | 11 19 | 14 47 | 11 19 | 14 47 | 11 19 | 14 47 | 11 19 | 14 47 | 11 19 | 14 47 | 11 19 | 14 47 |
| 12 | 11 18 | 14 46 | 11 18 | 14 46 | 11 18 | 14 46 | 11 18 | 14 46 | 11 18 | 14 46 | 11 18 | 14 46 | 11 18 | 14 46 |
| 13 | 11 17 | 14 45 | 11 17 | 14 45 | 11 17 | 14 45 | 11 17 | 14 45 | 11 17 | 14 45 | 11 17 | 14 45 | 11 17 | 14 45 |
| 14 | 11 16 | 14 44 | 11 16 | 14 44 | 11 16 | 14 44 | 11 16 | 14 44 | 11 16 | 14 44 | 11 16 | 14 44 | 11 16 | 14 44 |
| 15 | 11 15 | 14 43 | 11 15 | 14 43 | 11 15 | 14 43 | 11 15 | 14 43 | 11 15 | 14 43 | 11 15 | 14 43 | 11 15 | 14 43 |
| 16 | 11 14 | 14 42 | 11 14 | 14 42 | 11 14 | 14 42 | 11 14 | 14 42 | 11 14 | 14 42 | 11 14 | 14 42 | 11 14 | 14 42 |
| 17 | 11 13 | 14 41 | 11 13 | 14 41 | 11 13 | 14 41 | 11 13 | 14 41 | 11 13 | 14 41 | 11 13 | 14 41 | 11 13 | 14 41 |
| 18 | 11 12 | 14 40 | 11 12 | 14 40 | 11 12 | 14 40 | 11 12 | 14 40 | 11 12 | 14 40 | 11 12 | 14 40 | 11 12 | 14 40 |
| 19 | 11 11 | 14 39 | 11 11 | 14 39 | 11 11 | 14 39 | 11 11 | 14 39 | 11 11 | 14 39 | 11 11 | 14 39 | 11 11 | 14 39 |
| 20 | 11 10 | 14 38 | 11 10 | 14 38 | 11 10 | 14 38 | 11 10 | 14 38 | 11 10 | 14 38 | 11 10 | 14 38 | 11 10 | 14 38 |
| 21 | 11 09 | 14 37 | 11 09 | 14 37 | 11 09 | 14 37 | 11 09 | 14 37 | 11 09 | 14 37 | 11 09 | 14 37 | 11 09 | 14 37 |
| 22 | 11 08 | 14 36 | 11 08 | 14 36 | 11 08 | 14 36 | 11 08 | 14 36 | 11 08 | 14 36 | 11 08 | 14 36 | 11 08 | 14 36 |
| 23 | 11 07 | 14 35 | 11 07 | 14 35 | 11 07 | 14 35 | 11 07 | 14 35 | 11 07 | 14 35 | 11 07 | 14 35 | 11 07 | 14 35 |
| 24 | 11 06 | 14 34 | 11 06 | 14 34 | 11 06 | 14 34 | 11 06 | 14 34 | 11 06 | 14 34 | 11 06 | 14 34 | 11 06 | 14 34 |
| 25 | 11 05 | 14 33 | 11 05 | 14 33 | 11 05 | 14 33 | 11 05 | 14 33 | 11 05 | 14 33 | 11 05 | 14 33 | 11 05 | 14 33 |
| 26 | 11 04 | 14 32 | 11 04 | 14 32 | 11 04 | 14 32 | 11 04 | 14 32 | 11 04 | 14 32 | 11 04 | 14 32 | 11 04 | 14 32 |
| 27 | 11 03 | 14 31 | 11 03 | 14 31 | 11 03 | 14 31 | 11 03 | 14 31 | 11 03 | 14 31 | 11 03 | 14 31 | 11 03 | 14 31 |
| 28 | 11 02 | 14 30 | 11 02 | 14 30 | 11 02 | 14 30 | 11 02 | 14 30 | 11 02 | 14 30 | 11 02 | 14 30 | 11 02 | 14 30 |
| 29 | 11 01 | 14 29 | 11 01 | 14 29 | 11 01 | 14 29 | 11 01 | 14 29 | 11 01 | 14 29 | 11 01 | 14 29 | 11 01 | 14 29 |
| 30 | 11 00 | 14 28 | 11 00 | 14 28 | 11 00 | 14 28 | 11 00 | 14 28 | 11 00 | 14 28 | 11 00 | 14 28 | 11 00 | 14 28 |

FISHERY & TRADING SETTING
OF PLANETS (N. 0. 12.)

| Day | MERCURY ☿ | | | | VENUS ♀ | | | |
|-----|-----------|-------|-------|------|---------|-------|-------|------|
| | Rise | Set | Alt. | Dir. | Rise | Set | Alt. | Dir. |
| 1 | 6 53 | 10 48 | 15 24 | 11 | 7 5 | 12 36 | 18 8 | 11 |
| 2 | 6 50 | 10 47 | 15 25 | 11 | 6 52 | 12 41 | 18 30 | 11 |
| 3 | 6 47 | 10 46 | 15 26 | 11 | 6 49 | 12 46 | 18 33 | 11 |
| 4 | 6 44 | 10 45 | 15 27 | 11 | 6 46 | 12 51 | 18 36 | 11 |
| 5 | 6 41 | 10 44 | 15 28 | 11 | 6 43 | 12 56 | 18 39 | 11 |
| 6 | 6 38 | 10 43 | 15 29 | 11 | 6 40 | 13 01 | 18 42 | 11 |
| 7 | 6 35 | 10 42 | 15 30 | 11 | 6 37 | 13 06 | 18 45 | 11 |
| 8 | 6 32 | 10 41 | 15 31 | 11 | 6 34 | 13 11 | 18 48 | 11 |
| 9 | 6 29 | 10 40 | 15 32 | 11 | 6 31 | 13 16 | 18 51 | 11 |
| 10 | 6 26 | 10 39 | 15 33 | 11 | 6 28 | 13 21 | 18 54 | 11 |
| 11 | 6 23 | 10 38 | 15 34 | 11 | 6 25 | 13 26 | 18 57 | 11 |
| 12 | 6 20 | 10 37 | 15 35 | 11 | 6 22 | 13 31 | 19 00 | 11 |
| 13 | 6 17 | 10 36 | 15 36 | 11 | 6 19 | 13 36 | 19 03 | 11 |
| 14 | 6 14 | 10 35 | 15 37 | 11 | 6 16 | 13 41 | 19 06 | 11 |
| 15 | 6 11 | 10 34 | 15 38 | 11 | 6 13 | 13 46 | 19 09 | 11 |
| 16 | 6 08 | 10 33 | 15 39 | 11 | 6 10 | 13 51 | 19 12 | 11 |
| 17 | 6 05 | 10 32 | 15 40 | 11 | 6 07 | 13 56 | 19 15 | 11 |
| 18 | 6 02 | 10 31 | 15 41 | 11 | 6 04 | 14 01 | 19 18 | 11 |
| 19 | 5 59 | 10 30 | 15 42 | 11 | 6 01 | 14 06 | 19 21 | 11 |
| 20 | 5 56 | 10 29 | 15 43 | 11 | 5 58 | 14 11 | 19 24 | 11 |
| 21 | 5 53 | 10 28 | 15 44 | 11 | 5 55 | 14 16 | 19 27 | 11 |
| 22 | 5 50 | 10 27 | 15 45 | 11 | 5 52 | 14 21 | 19 30 | 11 |
| 23 | 5 47 | 10 26 | 15 46 | 11 | 5 49 | 14 26 | 19 33 | 11 |
| 24 | 5 44 | 10 25 | 15 47 | 11 | 5 46 | 14 31 | 19 36 | 11 |
| 25 | 5 41 | 10 24 | 15 48 | 11 | 5 43 | 14 36 | 19 39 | 11 |
| 26 | 5 38 | 10 23 | 15 49 | 11 | 5 40 | 14 41 | 19 42 | 11 |
| 27 | 5 35 | 10 22 | 15 50 | 11 | 5 37 | 14 46 | 19 45 | 11 |
| 28 | 5 32 | 10 21 | 15 51 | 11 | 5 34 | 14 51 | 19 48 | 11 |
| 29 | 5 29 | 10 20 | 15 52 | 11 | 5 31 | 14 56 | 19 51 | 11 |
| 30 | 5 26 | 10 19 | 15 53 | 11 | 5 28 | 15 01 | 19 54 | 11 |

MORNING AND EVENING STARS

☿ MERCURY continues to rise shortly before 11 a.m. but will not be visible.

♀ VENUS begins to be an evening star. It is not at its brightest but may be seen in the last week of the month when it will set about an hour after the sun almost due west. Magnitude -3.4.

♂ MARS is a morning star. It moves eastward out of the constellation Capricornus into Aquarius and still rises too late to be seen.

♂ JUPITER is still a brilliant addition to the group of bright stars of the spring evening sky. It will be seen west of south as the sky grows dark and die west at altitude 30° about 10 o'clock. Magnitude -1.8.

♂ SATURN is a morning star in Sagittarius. Magnitude 0.7.

SATURN ♄

In all parts of the world but the second is usually quoted as the constellation of the word.

| Day | SATURN ♄ | | | |
|-----|----------|-------|-------|------|
| | Rise | Set | Alt. | Dir. |
| 1 | 4 6 | 10 48 | 15 24 | 11 |
| 2 | 4 3 | 10 47 | 15 25 | 11 |
| 3 | 4 0 | 10 46 | 15 26 | 11 |
| 4 | 3 40 | 10 45 | 15 27 | 11 |
| 5 | 3 37 | 10 44 | 15 28 | 11 |
| 6 | 3 34 | 10 43 | 15 29 | 11 |
| 7 | 3 31 | 10 42 | 15 30 | 11 |
| 8 | 3 28 | 10 41 | 15 31 | 11 |
| 9 | 3 25 | 10 40 | 15 32 | 11 |
| 10 | 3 22 | 10 39 | 15 33 | 11 |
| 11 | 3 19 | 10 38 | 15 34 | 11 |
| 12 | 3 16 | 10 37 | 15 35 | 11 |
| 13 | 3 13 | 10 36 | 15 36 | 11 |
| 14 | 3 10 | 10 35 | 15 37 | 11 |
| 15 | 3 07 | 10 34 | 15 38 | 11 |
| 16 | 3 04 | 10 33 | 15 39 | 11 |
| 17 | 3 01 | 10 32 | 15 40 | 11 |
| 18 | 2 58 | 10 31 | 15 41 | 11 |
| 19 | 2 55 | 10 30 | 15 42 | 11 |
| 20 | 2 52 | 10 29 | 15 43 | 11 |
| 21 | 2 49 | 10 28 | 15 44 | 11 |
| 22 | 2 46 | 10 27 | 15 45 | 11 |
| 23 | 2 43 | 10 26 | 15 46 | 11 |
| 24 | 2 40 | 10 25 | 15 47 | 11 |
| 25 | 2 37 | 10 24 | 15 48 | 11 |
| 26 | 2 34 | 10 23 | 15 49 | 11 |
| 27 | 2 31 | 10 22 | 15 50 | 11 |
| 28 | 2 28 | 10 21 | 15 51 | 11 |
| 29 | 2 25 | 10 20 | 15 52 | 11 |
| 30 | 2 22 | 10 19 | 15 53 | 11 |

| Duration of Time | | | THE SUN (JULIAN MOON) | | | Invert | | | Min. Time | | | MEMORAND |
|---------------------|---|----|-----------------------|------|----|---------------------------|-------|------|-----------------------|------|----|----------|
| Add to App. Time | | | Apparent R.A. | | | Time of Vernal Equinox | | | Add to Invert Time | | | |
| Year | | | of American | | | of the Year | | | of the Year | | | |
| M | D | Y | M | D | Y | M | D | Y | M | D | Y | |
| 1 | 4 | 5 | 0 75 | 0 49 | 24 | 9 10 | 4 22 | 1 11 | 0 97 | 0 36 | 29 | 11 23 37 |
| 2 | 3 | 47 | 0 75 | 0 44 | 12 | 9 11 | 4 45 | 2 | 0 97 | 0 40 | 23 | 11 19 41 |
| 3 | 3 | 49 | 0 74 | 0 47 | 51 | 9 11 | 5 8 | 3 | 0 96 | 0 44 | 24 | 11 15 45 |
| 4 | 3 | 11 | 0 74 | 0 51 | 30 | 9 12 | 5 31 | 3 | 0 96 | 0 48 | 19 | 11 11 49 |
| 5 | 2 | 54 | 0 73 | 0 55 | 9 | 0 12 | 5 54 | 1 | 0 95 | 0 52 | 15 | 11 7 53 |
| 6 | 2 | 36 | 0 72 | 0 58 | 48 | 9 13 | 6 16 | 9 | 0 95 | 0 56 | 12 | 11 3 58 |
| 7 | 2 | 19 | 0 73 | 1 2 | 27 | 9 14 | 6 39 | 6 | 0 94 | 1 0 | 8 | 11 0 2 |
| 8 | 2 | 2 | 0 71 | 1 6 | 7 | 9 15 | 7 2 | 1 | 0 94 | 1 4 | 5 | 10 56 6 |
| 9 | 1 | 45 | 0 70 | 1 9 | 46 | 9 16 | 7 24 | 5 | 0 93 | 1 8 | 1 | 10 52 10 |
| 10 | 1 | 28 | 0 69 | 1 13 | 26 | 9 17 | 7 46 | 8 | 0 93 | 1 11 | 58 | 10 48 14 |
| 11 | 1 | 12 | 0 68 | 1 17 | 6 | 9 18 | 8 9 | 0 | 0 92 | 1 15 | 51 | 10 44 18 |
| 12 | 0 | 56 | 0 67 | 1 20 | 47 | 9 19 | 8 31 | 0 | 0 91 | 1 19 | 51 | 10 40 22 |
| 13 | 0 | 40 | 0 65 | 1 24 | 28 | 9 20 | 8 54 | 9 | 0 91 | 1 23 | 43 | 10 36 26 |
| 14 | 0 | 25 | 0 64 | 1 28 | 9 | 9 22 | 9 14 | 6 | 0 90 | 1 27 | 44 | 10 32 30 |
| 15 | 0 | 9 | 0 63 | 1 31 | 50 | 9 23 | 9 36 | 2 | 0 90 | 1 31 | 41 | 10 28 34 |
| 16 | 0 | 1 | 0 61 | 1 35 | 32 | 9 25 | 9 57 | 6 | 0 89 | 1 35 | 37 | 10 24 38 |
| 17 | 0 | 20 | 0 59 | 1 39 | 14 | 9 26 | 10 18 | 9 | 0 88 | 1 39 | 34 | 10 20 42 |
| 18 | 0 | 34 | 0 58 | 1 42 | 56 | 9 28 | 10 40 | 0 | 0 88 | 1 43 | 30 | 10 16 47 |
| 19 | 0 | 48 | 0 56 | 1 46 | 39 | 9 30 | 11 0 | 9 | 0 87 | 1 47 | 27 | 10 12 51 |
| 20 | 1 | 1 | 0 54 | 1 50 | 23 | 9 31 | 11 22 | 7 | 0 86 | 1 51 | 23 | 10 8 55 |
| 21 | 1 | 14 | 0 52 | 1 54 | 6 | 9 33 | 11 42 | 2 | 0 85 | 1 55 | 30 | 10 4 59 |
| 22 | 1 | 26 | 0 51 | 1 57 | 51 | 9 35 | 12 2 | 6 | 0 84 | 1 59 | 27 | 10 1 3 |
| 23 | 1 | 28 | 0 49 | 2 1 | 35 | 9 37 | 12 22 | 8 | 0 84 | 2 3 | 13 | 9 57 7 |
| 24 | 1 | 49 | 0 47 | 2 5 | 20 | 9 39 | 12 42 | 7 | 0 83 | 2 7 | 10 | 9 53 11 |
| 25 | 2 | 0 | 0 45 | 2 9 | 6 | 9 41 | 13 2 | 5 | 0 82 | 2 11 | 6 | 9 49 15 |
| 26 | 2 | 11 | 0 43 | 2 13 | 52 | 9 43 | 13 22 | 0 | 0 81 | 2 15 | 3 | 9 45 19 |
| 27 | 2 | 21 | 0 42 | 2 16 | 39 | 9 45 | 13 41 | 4 | 0 80 | 2 18 | 59 | 9 41 23 |
| 28 | 2 | 30 | 0 39 | 2 20 | 26 | 9 47 | 14 0 | 5 | 0 79 | 2 22 | 56 | 9 37 28 |
| 29 | 2 | 49 | 0 36 | 2 24 | 13 | 9 49 | 14 19 | 4 | 0 78 | 2 26 | 53 | 9 33 32 |
| 30 | 2 | 37 | 0 34 | 2 28 | 2 | 0 52 | 14 38 | 0 11 | 0 77 | 2 30 | 49 | 9 29 36 |

METEOROLOGICAL OBSERVATIONS APRIL 1920

| | TEU | ARAT | RT | BAR | WJD | RA | RE | 19 |
|----|------|------|------|--------|-----|-----|------|--------|
| 24 | 39 6 | 32 6 | 6 | 782 | 5 2 | W | | 6 8 |
| 25 | 53 1 | 35 0 | 6 | 755 | 1 2 | NAV | | 2 7 |
| 26 | 53 8 | 36 8 | 6 | 633 | 1 3 | SW | | 1 9 |
| 27 | 54 7 | 39 4 | 7 | 455 | 2 0 | SW | 03 | 2 7 |
| 28 | 60 6 | 40 8 | 48 8 | 378 | 2 5 | SL | 04 | 2 0 |
| 29 | 52 0 | 39 6 | 49 0 | 205 | 2 6 | NE | 44 | 1 5 |
| 30 | 50 3 | 30 3 | 49 1 | 29 517 | 3 8 | NE | 08 | 1 5 |
| 31 | 54 6 | 36 1 | 47 3 | 20 208 | — | — | 4 15 | 1 21 3 |

[See Note, p. 4.] THE MOON

| Long. W. | At Greenwich 11 M (n) 11. | | | | | | | | | | Long. of Jupiter's Satellites at noon, 30 Dec. 1899 |
|----------|---------------------------|-----------------|-------------|---------------------|----------|----------|----------|---------|----------|---------|---|
| | Rank | Right Ascension | Declination | Distance from Earth | Age | Phase | Long. W. | Lat. N. | Long. W. | Lat. N. | |
| 1 | 6 28 | 13 40 21 | 29 | 2 47 4 | 27 14 27 | 57 17 15 | 36 | 2 10 12 | 12 41 2 | | |
| 2 | 6 45 | 14 36 22 | 51 | 3 40 23 | 21 54 7 | 57 45 15 | 44 | 3 14 1 | 3 44 1 | | |
| 3 | 7 7 | 15 34 0 | 16 | 4 37 43 | 25 55 5 | 58 12 15 | 51 | 4 12 1 | 3 44 1 | | |
| 4 | 7 40 | 16 30 1 | 33 | 5 35 27 | 27 31 8 | 58 37 15 | 58 | 5 18 1 | 4 31 2 | | |
| 5 | 8 25 | 17 31 2 | 37 | 6 41 40 | 27 56 1 | 59 59 15 | 6 | 6 18 1 | 4 33 2 | | |
| 6 | 9 30 | 18 33 3 | 26 | 7 44 50 | 26 38 0 | 59 18 15 | 9 | 7 18 1 | 4 33 3 | | |
| 7 | 10 50 | 19 34 3 | 57 | 8 46 13 | 23 25 2 | 59 32 15 | 13 | 8 18 1 | 4 33 3 | | |
| 8 | 12 18 | 20 31 4 | 20 | 9 44 33 | 18 51 8 | 59 40 15 | 15 | 9 18 1 | 4 33 4 | | |
| 9 | 13 48 | 21 24 4 | 38 | 10 39 41 | 13 11 7 | 59 40 15 | 15 | 10 18 1 | 3 15 0 | | |
| 10 | 15 17 | 22 15 4 | 52 | 11 32 8 | 6 50 6 | 59 30 15 | 23 | 11 18 1 | 3 15 0 | | |
| 11 | 16 42 | 23 3 5 | 6 | 12 22 50 | 0 11 71 | 59 10 15 | 7 | 12 18 1 | 3 15 0 | | |
| 12 | 18 7 | 23 51 5 | 19 | 13 18 49 | 6 27 58 | 40 15 59 | 13 | 13 18 1 | 3 15 0 | | |
| 13 | 19 30 | 0 39 5 | 53 | 14 3 4 | 12 32 0 | 34 5 49 | 14 | 14 18 1 | 3 15 0 | | |
| 14 | 20 53 | 1 28 6 | 50 | 14 54 24 | 17 57 5 | 37 20 15 | 18 | 21 34 | 3 15 0 | | |
| 15 | 22 16 | 2 18 6 | 12 | 15 47 13 | 22 23 5 | 36 15 15 | 25 | 32 14 | 3 15 0 | | |
| 16 | 23 34 | 3 11 6 | 41 | 16 41 19 | 15 37 8 | 55 54 15 | 14 | 31 24 | 3 15 0 | | |
| 17 | | | | 17 35 40 | 27 30 6 | 55 17 15 | 4 | 32 14 | 3 15 0 | | |
| 18 | 0 44 | 4 7 2 | 24 | 18 31 45 | 28 0 8 | 54 47 14 | 56 | 31 48 | 3 15 0 | | |
| 19 | 1 41 | 4 57 8 | 14 | 19 25 51 | 27 10 1 | 54 16 14 | 50 | 43 12 | 4 33 2 | | |
| 20 | 2 24 | 5 48 9 | 17 | 20 17 59 | 25 5 4 | 54 15 14 | 47 | 42 13 | 4 33 3 | | |
| 21 | 3 55 | 6 37 10 | 26 | 21 7 46 | 21 55 9 | 54 15 14 | 47 | 41 13 | 4 33 3 | | |
| 22 | 5 38 | 7 24 11 | 40 | 22 55 16 | 17 52 1 | 54 15 14 | 50 | 41 13 | 4 33 4 | | |
| 23 | 7 34 | 8 12 13 | 53 | 24 40 57 | 13 4 1 | 54 44 14 | 55 | 43 10 | 4 33 4 | | |
| 24 | 9 34 | 9 5 14 | 6 | 25 35 30 | 7 42 0 | 55 11 15 | 12 | 42 13 | 4 33 4 | | |
| 25 | 11 40 | 9 34 15 | 19 | 0 9 49 | 1 56 15 | 55 45 15 | 11 | 43 10 | 4 33 4 | | |
| 26 | 13 41 | 10 14 16 | 33 | 0 54 51 | 4 2 21 | 56 22 15 | 21 | 43 12 | 4 33 4 | | |
| 27 | 15 42 | 10 57 17 | 50 | 1 41 39 | 9 59 2 | 57 0 15 | 32 | 43 18 | 4 33 4 | | |
| 28 | 17 45 | 11 43 19 | 1 | 2 31 16 | 15 38 1 | 57 36 15 | 42 | 43 18 | 4 33 4 | | |
| 29 | 19 48 | 12 30 20 | 34 | 3 24 35 | 20 38 4 | 58 9 15 | 51 | 43 18 | 4 33 4 | | |
| 30 | 21 51 | 13 15 22 | 0 | 4 22 3 | 24 36 9 | 58 36 15 | 58 | 31 24 | 4 33 4 | | |

CONJUNCTIONS, ECLIPSES, AND OTHER CELESTIAL PHENOMENA

April 4 Daybreak at 3h.39^m
 Civil twilight ends 19^m 17^s
 Night begins 20^m 31^s The
 length of the Day is 24h 51^m
 Apr 1 Mercury in superior
 conjunction
 Apr 4 24 Jupiter in con-
 junction with ☿ 6^h
 Apr 6 Occultation by the ☿
 of Gemmastrum Ma. 5.5.
 See p. 59
 Apr 13 1100m Partial Ecl^{se}
 of the Moon Invisible at Green-
 wich. See p. 58
 Apr 19, 24 Saturn in con-
 junction with ☿ 1 6^h
 Apr 22 20h Mercury and
 Venus in conjunction ☿ 2 5^h
 Apr 25 22h Mars in conjunc-
 tion with ☿ 6 2^h
 Apr 27 Mercury at Greatest
 Elongation 20^h
 Apr 27 24 Mercury and Venus
 in conjunction ☿ 2 6^h
 Apr 28 24 Eclipse of the
 Sun Invisible at Greenwich
 See p. 58.
 Apr 30, 24 Mercury in con-
 junction with ☿ 2 4^h
 Apr 30 22h Venus in con-
 junction with ☿ 2 2^h
 In this month the Moon is in
 crescent during the Afternoons 4^h
 Constellations near the South
 meridian at 22^h (after Hydrus,
 Leo, Leo Minor, Crater, Corvus,
 Virgo)

APPARENT RIGHT ASCENSION AND DECLINATION OF THE PLANETS AT NOON

| ☿ MERCURY | | | | ♀ VENUS | | | | ♂ MARS | | | | ♃ JUPITER | | | | ♄ SATURN | | | | |
|-----------|---|----|----|---------|----|---|---|--------|----|----|----|-----------|----|----|----|----------|----|----|---|------|
| | h | m | s | Dec. | h | m | s | Dec. | h | m | s | Dec. | h | m | s | Dec. | h | m | s | Dec. |
| 1 | 0 | 42 | 5 | 3 | 22 | 0 | 1 | 31 | 9 | 3 | 39 | 8 | 22 | 55 | 20 | 8 | 10 | 8 | | |
| 6 | 1 | 19 | 12 | 8 | 3 | 8 | 1 | 54 | 19 | 11 | 2 | 7 | 44 | 57 | 6 | 40 | 7 | 4 | | |
| 11 | 1 | 56 | 49 | 12 | 38 | 2 | 2 | 48 | 13 | 19 | 0 | 23 | 44 | 22 | 5 | 28 | 51 | 2 | | |
| 16 | 2 | 32 | 59 | 16 | 39 | 5 | 3 | 41 | 40 | 15 | 27 | 3 | 23 | 36 | 27 | 3 | 36 | 9 | | |
| 21 | 3 | 5 | 11 | 19 | 46 | 4 | 3 | 57 | 17 | 25 | 9 | 23 | 54 | 41 | 4 | 4 | 56 | 48 | | |
| 26 | 3 | 31 | 14 | 22 | 49 | 5 | 3 | 30 | 41 | 17 | 13 | 4 | 6 | 53 | 0 | 3 | 15 | 5 | | |

THE SUN AND PLANETS

| HORIZONTAL PARALLAX | | | | | | | | | | ANGULAR SEMIDIAMETER | | | | | | | | | | |
|---------------------|----|---|---|---|---|---|---|---|---|----------------------|----|---|---|---|---|---|----|---|---|---|
| h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s | h | m | s |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58 | 79 | 6 | 7 | 5 | 3 | 4 | 1 | 6 | 0 | 16 | 1 | 2 | 5 | 1 | 2 | 2 | 16 | 6 | 7 | 5 |
| 59 | 77 | 7 | 7 | 5 | 4 | 1 | 1 | 5 | 0 | 15 | 58 | 2 | 9 | 5 | 2 | 2 | 16 | 1 | 7 | 6 |
| 59 | 74 | 9 | 7 | 5 | 5 | 4 | 1 | 5 | 0 | 15 | 55 | 3 | 7 | 3 | 2 | 2 | 15 | 8 | 7 | 8 |

| URANUS | | | | NEPTUNE | | | | | | |
|--------|---|----|------|---------|----|----|------|---|----|----|
| D | M | S | Dec. | D | M | S | Dec. | | | |
| 10 | 0 | 44 | 5 | 4 | 5 | 10 | 13 | 4 | 11 | 43 |
| 20 | 0 | 46 | 9 | 4 | 18 | 10 | 12 | 8 | 11 | 46 |

April 16 Uranus ris. 4^h 46^m, set.
20^h 12^m Neptune ris. 4^h 46^m.

April 16 Uranus rises at 4h 45m, sets

27h 34m Neptune rises at 11h 11m, sets

Time of High Water at the undermentioned Places—

| No. | LONDON | | LIVERPOOL | | BRISTOL | | HULL | | GLASGOW | | TRINIDAD | | KINGSTON | |
|-----|--------|--------|-----------|--------|---------|--------|-------|--------|---------|--------|----------|--------|----------|--------|
| | Morn. | After. | Morn. | After. | Morn. | After. | Morn. | After. | Morn. | After. | Morn. | After. | Morn. | After. |
| 1 | 3 0 | 13 30 | 0 25 | 12 36 | 8 34 | 20 46 | 7 10 | 19 16 | 1 33 | 13 43 | 4 0 | 16 12 | 0 34 | 12 4 |
| 2 | 3 34 | 16 2 | 0 56 | 13 8 | 9 4 | 21 18 | 7 40 | 19 50 | 1 7 | 14 20 | 4 32 | 16 46 | 1 5 | 13 1 |
| 3 | 4 5 | 16 33 | 1 28 | 13 44 | 9 34 | 21 48 | 8 12 | 20 29 | 1 43 | 14 57 | 5 7 | 17 24 | 1 40 | 14 |
| 4 | 4 40 | 17 3 | 1 4 | 14 26 | 10 6 | 22 22 | 8 46 | 21 13 | 2 10 | 15 33 | 5 47 | 18 11 | 2 23 | 14 5 |
| 5 | 5 23 | 17 45 | 1 48 | 15 17 | 10 43 | 23 5 | 9 30 | 22 0 | 3 52 | 16 16 | 6 36 | 19 6 | 3 12 | 15 3 |
| 6 | 6 20 | 18 44 | 3 41 | 16 25 | 11 38 | | 10 24 | 23 20 | 4 33 | 17 13 | 7 35 | 20 9 | 4 17 | 17 |
| 7 | 7 32 | 19 59 | 4 58 | 17 58 | 0 8 | 13 7 | 11 42 | | 5 30 | 18 16 | 8 44 | 21 33 | 5 40 | 18 4 |
| 8 | 9 4 | 21 28 | 6 26 | 19 33 | 1 48 | 15 1 | 1 4 | 13 26 | 6 36 | 20 56 | 10 8 | 22 59 | 7 3 | 20 |
| 9 | 10 44 | 23 15 | 8 4 | 20 45 | 3 39 | 16 27 | 2 26 | 14 53 | 8 37 | 22 6 | 11 38 | | 8 10 | 20 5 |
| 10 | 11 56 | | 9 8 | 21 39 | 4 55 | 17 28 | 3 42 | 15 54 | 9 54 | 23 1 | 0 14 | 22 47 | 9 14 | 21 4 |
| 11 | 0 18 | 12 49 | 9 58 | 22 24 | 5 53 | 18 18 | 4 34 | 16 42 | 10 50 | 23 44 | 1 7 | 23 29 | 10 5 | 22 3 |
| 12 | 1 5 | 13 20 | 10 41 | 23 5 | 6 36 | 19 0 | 5 17 | 17 25 | 11 34 | | 1 50 | 24 5 | 10 44 | 23 |
| 13 | 2 43 | 14 10 | 11 22 | 23 43 | 7 19 | 19 40 | 5 56 | 18 6 | 0 26 | 22 23 | 2 27 | 24 43 | 11 20 | 23 4 |
| 14 | 2 44 | 14 49 | | 24 0 | 7 58 | 20 18 | 6 35 | 18 45 | 1 4 | 23 1 | 3 6 | 25 23 | | 24 |
| 15 | 3 3 | 15 28 | 0 21 | 22 38 | 8 35 | 20 51 | 7 10 | 19 24 | 1 40 | 23 36 | 4 10 | 26 3 | 0 23 | 24 4 |
| 16 | 3 42 | 16 4 | 0 57 | 23 15 | 9 7 | 21 23 | 7 44 | 20 0 | 2 16 | 24 15 | 4 15 | 26 44 | 1 5 | 25 2 |
| 17 | 4 18 | 16 35 | 1 32 | 23 50 | 9 38 | 21 52 | 8 15 | 20 39 | 2 52 | 24 54 | 4 55 | 27 23 | 2 46 | 26 |
| 18 | 4 49 | 17 4 | 2 48 | 24 29 | 10 7 | 22 20 | 8 48 | 21 18 | 3 22 | 25 20 | 5 39 | 28 11 | 3 26 | 27 |
| 19 | 5 24 | 17 36 | 2 45 | 25 10 | 10 35 | 22 51 | 9 24 | 22 5 | 3 56 | 26 8 | 6 26 | 29 2 | 3 21 | 28 |
| 20 | 6 10 | 18 22 | 3 31 | 26 6 | 11 11 | 23 32 | 10 6 | 23 4 | 4 33 | 26 53 | 7 22 | 30 8 | 4 19 | 29 11 |
| 21 | 7 10 | 19 23 | 4 33 | 27 26 | | 24 6 | 11 4 | | 5 18 | 28 26 | 8 34 | 31 25 | 5 32 | 28 3 |
| 22 | 8 29 | 20 39 | 5 57 | 28 59 | 0 39 | 23 32 | 0 28 | 22 25 | 6 34 | 20 13 | 9 47 | 32 47 | 6 46 | 29 4 |
| 23 | 9 59 | 22 8 | 7 21 | 22 9 | 1 21 | 25 16 | 1 55 | 23 55 | 8 21 | 21 35 | 10 59 | 33 54 | 7 56 | 30 4 |
| 24 | 11 23 | 23 32 | 8 24 | 21 0 | 3 56 | 26 31 | 2 59 | 24 59 | 9 38 | 22 20 | 11 57 | | 8 48 | 31 2 |
| 25 | | 22 16 | 9 12 | 21 40 | 5 0 | 27 22 | 3 45 | 25 46 | 10 28 | 22 54 | 0 38 | 22 43 | 9 26 | 32 |
| 26 | 0 22 | 12 54 | 9 51 | 22 17 | 5 46 | 28 3 | 4 25 | 26 27 | 11 0 | 23 27 | 1 17 | 23 20 | 9 59 | 32 3 |
| 27 | 0 57 | 13 23 | 10 28 | 22 50 | 6 25 | 28 39 | 5 0 | 27 5 | 11 33 | 23 58 | 2 47 | 23 49 | 10 29 | 32 5 |
| 28 | 1 26 | 13 54 | 11 3 | 23 24 | 6 59 | 29 14 | 5 34 | 27 40 | | 24 8 | 2 18 | 24 24 | 10 59 | 33 2 |
| 29 | 2 58 | 14 26 | 11 38 | 23 59 | 7 34 | 29 49 | 6 0 | 28 18 | 0 31 | 24 43 | 2 52 | 25 0 | 11 3 | 33 5 |
| 30 | 2 35 | 15 2 | | 24 23 | 8 8 | 30 23 | 6 40 | 28 56 | 1 4 | 25 20 | 3 25 | 25 41 | | 34 1 |

Various places in Europe

The Date of Easter—Easter Day was on April 20 as it is this year in the years 1904 assuming that the present system of determining the date of the festival continues occasion will be in 2003.

| DAY OF | | Fasts and Festivals | | THE SUN | | DAYS | |
|--------|----|---------------------------------------|--|---------|-------|--------|-----|
| | | Remarkable Days—Events | | Place. | | Miles. | |
| M | | W | | H | | M | |
| 1 | Th | St Philip and St James | Duke of Connaught b 1850 | 4 35 | 19 40 | 121 | 244 |
| 2 | F | Hudson's Bay Company chartered, | 1670 | 4 33 | 19 38 | 122 | 243 |
| 3 | S | Ld Anson's Victory 1747 | General "Strike" began '26 | 4 34 | 19 33 | 123 | 242 |
| 4 | S | 2nd Sun after Easter | Joseph Whitaker, F.R.S. b 1820 | 4 30 | 19 25 | 124 | 241 |
| 5 | M | Napoleon I b 1821 | Empress Eugénie born, 1826 | 4 28 | 19 26 | 125 | 240 |
| 6 | Tu | R.R. & A.C. (1910) | Com Peary (Arctic) b 1856 | 4 26 | 19 28 | 126 | 239 |
| 7 | W | S.S. <i>Invicta</i> torpedoed | 1915 1,134 drowned | 4 24 | 19 30 | 127 | 238 |
| 8 | Th | Treaty on 11 l. m. chains signed | (63 229, 166), 1871 | 4 23 | 19 31 | 128 | 237 |
| 9 | F | Half Quarter Day | Sir James M. Barrie born 1860 | 4 21 | 19 33 | 129 | 236 |
| 10 | S | H.M.S. <i>Invicta</i> blockaded | | | | | |
| 11 | S | 3rd Sun after Easter | F.A. | | | | |
| 12 | M | Windhoek occupied | 1915 | | | | |
| 13 | Tu | Sir Arthur Sullivan, musical composer | born, 1842 | 4 14 | 19 39 | 133 | 232 |
| 14 | W | Old May Day | <i>Illustrated News</i> No 1 issued 1842 | 4 13 | 19 41 | 134 | 231 |
| 15 | Th | Florence Nightingale born | 1820 Viny Ridge, 1916 | 4 11 | 19 42 | 135 | 230 |
| 16 | F | Albuera 1811 | Lord Wolverhampton born, 1830 | 4 10 | 19 44 | 136 | 229 |
| 17 | S | King of Spain born 1886 | Relief of Mafeking, 1900 | 4 8 | 19 45 | 137 | 228 |
| 18 | S | 4th Sun after Easter | George Meredith d 1909 | 4 7 | 19 46 | 138 | 227 |
| 19 | M | Armada sailed from Lisbon | 1588 Gladstone d 1898 | 4 6 | 19 48 | 139 | 226 |
| 20 | Tu | Sir Edward Goschen | 'Scrap of Paper,' died, 1924 | 4 4 | 19 49 | 140 | 225 |
| 21 | W | Earl of Rosebery &c died, 1929, | born, May 7 1847 | 4 3 | 19 51 | 141 | 224 |
| 22 | Th | Earl of Lyons died, 1925 | born, Sept 28, 1852 | 4 2 | 19 52 | 142 | 223 |
| 23 | F | Ramillies 1706 | Thomas Hood, poet, born, 1799 | 4 0 | 19 53 | 143 | 222 |
| 24 | S | EMPIRE DAY | Queen Victoria born, 1819 | 3 59 | 19 55 | 144 | 221 |
| 25 | S | Rogation Sunday | Bank Holiday Act, 1871 | 3 58 | 19 56 | 145 | 220 |
| 26 | M | QUEEN'S BIRTHDAY (1867) | Curwen tonic sold 1880 | 3 57 | 19 57 | 146 | 219 |
| 27 | Tu | | | | 59 | 147 | 218 |
| 28 | W | | | | | 148 | 217 |
| 29 | Th | | | | | 149 | 216 |
| 30 | F | | | | | 150 | 215 |
| 31 | S | UNION DAY, S. Africa (1910) | Battle of Jutland, 1916 | 3 52 | 20 3 | 151 | 214 |

PHASES OF THE MOON

1st Quarter 1st 1930 53 111

The time used in these pages is that of the Greenwich meridian. To convert this into Summer Time, 1 hour must be added.

MONTHLY NOTES.

19,0 |

MAY FIFTH MONTH

THE 54 (Mean No.)

W E L P A N

[illegible]

REEL 8 HONORABLE OLIVERIA MAY 1980

[illegible]

| HYDROLYTIC ELEMENT | | |
|--------------------|--------|------------|
| Year | Age | (value of) |
| Year | Age | Age |
| 5 | 43 37 | 37 |
| 25 | 44 8 | 8 |
| 45 | 48 0 0 | 0 |

[See Note p 4] THE MOON

| Day of Month | At Greenwich | | | At 1 M. Light | | | Conjunction of Jupiter & Saturn at noon on Sep 6 |
|--------------|--------------|-------|------|---------------|-------|-------|--|
| | Rises | Set | Alt | Rises | Set | Alt | |
| 1 | 5 39 | 16 23 | 22 | 5 33 | 16 17 | 22 | 3 5 |
| 2 | 6 22 | 15 35 | 0 32 | 6 15 | 15 28 | 1 0 | 7 4 |
| 3 | 7 21 | 16 28 | 1 25 | 7 30 | 16 27 | 1 0 | 9 5 |
| 4 | 8 38 | 17 29 | 2 1 | 8 31 | 17 28 | 1 6 | 10 6 |
| 5 | 10 4 | 18 26 | 2 27 | 9 31 | 18 20 | 3 0 | 9 7 |
| 6 | 11 31 | 19 20 | 2 46 | 10 25 | 19 16 | 3 16 | 7 8 |
| 7 | 12 59 | 20 10 | 3 0 | 11 17 | 20 10 | 3 39 | 5 41 |
| 8 | 14 23 | 21 05 | 3 13 | 12 7 | 21 05 | 3 58 | 5 43 |
| 9 | 15 46 | 21 44 | 3 26 | 12 56 | 21 44 | 4 15 | 5 43 |
| 10 | 17 7 | 22 30 | 3 39 | 13 45 | 22 30 | 4 28 | 5 43 |
| 11 | 18 29 | 23 18 | 3 54 | 14 35 | 23 18 | 4 40 | 5 41 |
| 12 | 19 51 | 24 0 | 4 14 | 15 27 | 24 0 | 4 52 | 5 41 |
| 13 | 21 12 | 24 45 | 4 40 | 16 21 | 24 45 | 5 6 | 5 41 |
| 14 | 22 27 | 25 31 | 5 15 | 17 16 | 25 31 | 5 16 | 5 41 |
| 15 | 23 31 | 26 18 | 5 4 | 18 12 | 26 18 | 5 55 | 5 38 |
| 16 | | | | 19 7 | 27 3 | 6 33 | 5 31 |
| 17 | 0 20 | 3 39 | 2 30 | 20 0 | 28 34 | 7 12 | 5 31 |
| 18 | 0 51 | 4 30 | 3 11 | 21 17 | 29 23 | 7 48 | 5 27 |
| 19 | 1 21 | 5 18 | 3 52 | 22 39 | 30 15 | 8 24 | 5 21 |
| 20 | 1 40 | 6 3 | 4 25 | 23 45 | 31 14 | 9 0 | 5 13 |
| 21 | 1 54 | 6 45 | 4 58 | 24 39 | 32 14 | 9 36 | 5 14 |
| 22 | 2 7 | 7 27 | 5 30 | 25 53 | 33 15 | 10 1 | 5 32 |
| 23 | 2 18 | 8 14 | 6 0 | 27 52 | 34 15 | 10 55 | 5 41 |
| 24 | 2 20 | 8 50 | 6 28 | 29 36 | 35 15 | 11 48 | 5 43 |
| 25 | 2 41 | 9 34 | 7 0 | 31 34 | 36 15 | 12 41 | 5 41 |
| 26 | 2 54 | 10 21 | 7 8 | 33 44 | 37 15 | 13 34 | 5 41 |
| 27 | 3 11 | 11 12 | 7 34 | 35 58 | 38 16 | 14 29 | 5 41 |
| 28 | 3 35 | 12 10 | 8 1 | 38 26 | 39 16 | 15 24 | 5 41 |
| 29 | 4 16 | 13 12 | 8 29 | 40 53 | 40 16 | 16 18 | 5 41 |
| 30 | 5 10 | 14 17 | 9 0 | 43 45 | 41 16 | 17 11 | 5 41 |
| 31 | 6 23 | 15 21 | 0 2 | 46 49 | 42 16 | 18 0 | 5 41 |

CONJUNCTIONS, ECLIPSES AND OTHER CELESTIAL EVENTS

May 12 Day breaks at 2h 41m Civil twilight ends at 2h 20m Night begins at 2h 53m The length of the day is 14h 45m

May 12 Jupiter in conjunction with Mars

May 12 Mars and Uranus in conjunction at 5h 4m

May 16 Mars at perihelion in conjunction with Venus

May 17 Venus and Jupiter in conjunction at 4h 24m

May 20 Mercury at inferior conjunction

May 25 Mars in conjunction with Jupiter

May 25 Occultation and eclipse of Jupiter's III

May 27 Mercury in conjunction with Venus

May 29 Jupiter in conjunction with Venus

May 30 Venus in conjunction with Mars

A meteor shower, believed to have relation to Halley's comet, very strong on 4 p.m. 11 A.m.

May 31 Venus appears in the morning from 11 A.m. to 6 p.m.

In the morning the M. rains in the afternoon the A. rains

Conjunctions near the S. point at 2h Leo Minor

Crater Hydra, Corvus, Virgo, Bootes, Taurus.

APPARENT RIGHT ASCENSION AND DECLINATION OF THE PLANETS AT NOON

| Day | MERCURY | | | VENUS | | | MARS | | | JUPITER | | | SATURN | | |
|-----|---------|------|-------|-------|------|-------|------|------|------|---------|-------|------|--------|------|-------|
| | R.A. | Dec. | Alt. | R.A. | Dec. | Alt. | R.A. | Dec. | Alt. | R.A. | Dec. | Alt. | R.A. | Dec. | Alt. |
| 1 | 3 49 | 34 | 22 40 | 3 55 | 53 | 20 48 | 0 21 | 1 | 1 6 | 5 56 | 22 33 | 1 | 18 51 | 3 | 22 31 |
| 6 | 3 59 | 9 | 22 48 | 4 22 | 31 | 22 9 | 0 35 | 7 | 2 33 | 5 56 | 22 39 | 4 | 18 50 | 37 | 22 32 |
| 11 | 3 59 | 54 | 21 53 | 4 47 | 31 | 23 14 | 0 49 | 11 | 4 6 | 5 54 | 22 45 | 3 | 18 50 | 1 | 22 32 |
| 16 | 3 53 | 22 | 20 13 | 5 13 | 50 | 24 3 | 1 3 | 15 | 5 34 | 5 19 | 22 50 | 7 | 18 49 | 16 | 22 33 |
| 21 | 3 43 | 11 | 18 12 | 5 40 | 81 | 24 35 | 1 27 | 20 | 7 26 | 5 23 | 22 55 | 7 | 18 48 | 22 | 22 35 |
| 26 | 3 34 | 1 | 16 23 | 6 6 | 58 | 24 49 | 1 31 | 26 | 8 27 | 5 28 | 22 59 | 0 | 18 47 | 29 | 22 36 |
| 31 | 3 29 | 37 | 15 14 | 6 33 | 33 | 24 45 | 1 45 | 34 | 9 51 | 5 33 | 23 4 | 0 | 18 46 | 9 | 22 37 |

THE SUN AND PLANETS

| HORIZONTAL PARALLAX | | | | | | | | | | ANGULAR SEMIDIAMETER | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|----------------------|---|----|---|---|---|---|---|---|---|
| D. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | D. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 50 | 5 | 4 | 4 | 4 | 4 | 4 | 4 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 52 | 2 | 4 | 5 | 5 | 5 | 5 | 5 |

1930]

MAY FIFTH MONTH

{ 41

Time of High Water at the undermentioned places—

| L | LONDON | | Plymouth | | Lancaster | | Liverpool | | Hull | | Grimsby | | Sheffield | | Leeds | | Manchester | | Birmingham | | Bristol | | London | | G.C.T. | | | |
|----|--------|----|----------|----|-----------|----|-----------|----|------|----|---------|----|-----------|----|-------|----|------------|----|------------|----|---------|----|--------|----|--------|----|----|----|
| | M | W | M | W | M | W | M | W | M | W | M | W | M | W | M | W | M | W | M | W | M | W | M | W | M | W | | |
| 1 | 3 | 43 | 15 | 35 | 1 | 34 | 14 | 53 | 8 | 43 | 20 | 49 | 7 | 15 | 19 | 36 | 1 | 37 | 14 | 1 | 4 | 3 | 16 | 43 | 0 | 33 | 18 | 55 |
| 2 | 3 | 54 | 16 | 34 | 1 | 22 | 13 | 34 | 9 | 21 | 11 | 37 | 7 | 53 | 20 | 20 | 2 | 11 | 14 | 47 | 4 | 47 | 17 | 9 | 1 | 16 | 13 | 41 |
| 3 | 4 | 35 | 16 | 52 | 1 | 51 | 14 | 28 | 10 | 4 | 22 | 19 | 8 | 34 | 21 | 10 | 2 | 54 | 15 | 28 | 5 | 31 | 17 | 57 | 2 | 5 | 14 | 46 |
| 4 | 5 | 24 | 17 | 35 | 2 | 41 | 15 | 19 | 10 | 51 | 23 | 11 | 9 | 20 | 22 | 10 | 3 | 42 | 16 | 17 | 6 | 19 | 18 | 58 | 3 | 3 | 15 | 41 |
| 5 | 6 | 21 | 18 | 35 | 3 | 41 | 16 | 33 | 11 | 53 | 23 | 15 | 10 | 19 | 23 | 25 | 4 | 30 | 17 | 24 | 7 | 27 | 20 | 12 | 4 | 13 | 17 | 1 |
| 6 | 7 | 35 | 16 | 51 | 4 | 57 | 17 | 54 | 0 | 19 | 13 | 16 | 11 | 35 | 5 | 28 | 19 | 6 | 8 | 39 | 21 | 28 | 5 | 32 | 1 | 8 | 3 | 3 |
| 7 | 9 | 0 | 21 | 51 | 6 | 23 | 19 | 15 | 1 | 49 | 14 | 43 | 0 | 57 | 13 | 8 | 6 | 58 | 20 | 46 | 9 | 55 | 22 | 46 | 6 | 50 | 19 | 41 |
| 8 | 10 | 26 | 22 | 50 | 7 | 40 | 20 | 20 | 3 | 2 | 16 | 4 | 2 | 20 | 14 | 27 | 8 | 20 | 21 | 45 | 11 | 8 | 23 | 48 | 7 | 59 | 20 | 4 |
| 9 | 11 | 35 | 23 | 53 | 8 | 42 | 21 | 13 | 4 | 28 | 17 | 2 | 3 | 20 | 15 | 28 | 9 | 25 | 22 | 28 | 12 | 7 | 24 | 50 | 8 | 51 | 21 | 2 |
| 10 | | | 24 | 54 | 9 | 31 | 21 | 59 | 5 | 23 | 17 | 51 | 4 | 9 | 16 | 17 | 10 | 20 | 23 | 27 | 0 | 36 | 24 | 56 | 9 | 43 | 22 | 1 |
| 11 | 0 | 38 | 13 | 2 | 10 | 37 | 22 | 40 | 6 | 9 | 18 | 33 | 4 | 50 | 17 | 1 | 11 | 8 | 23 | 57 | 1 | 24 | 13 | 37 | 10 | 23 | 22 | 4 |
| 12 | 1 | 19 | 13 | 43 | 10 | 58 | 23 | 15 | 6 | 50 | 19 | 12 | 5 | 30 | 17 | 43 | 11 | 52 | 24 | 2 | 2 | 14 | 18 | 11 | 1 | 23 | 2 | 3 |
| 13 | 1 | 53 | 14 | 22 | 11 | 39 | 23 | 56 | 7 | 25 | 19 | 48 | 6 | 5 | 18 | 24 | 0 | 36 | 22 | 30 | 2 | 38 | 14 | 56 | 11 | 43 | 23 | 5 |
| 14 | 2 | 40 | 15 | 2 | 12 | 16 | 2 | 16 | 8 | 6 | 20 | 15 | 6 | 40 | 19 | 3 | 1 | 21 | 13 | 9 | 3 | 15 | 15 | 37 | 12 | 2 | 12 | 2 |
| 15 | 3 | 20 | 15 | 38 | 0 | 32 | 12 | 52 | 8 | 41 | 20 | 57 | 7 | 15 | 19 | 41 | 1 | 44 | 13 | 51 | 3 | 49 | 16 | 17 | 0 | 40 | 13 | 3 |
| 16 | 3 | 57 | 16 | 7 | 1 | 7 | 13 | 30 | 9 | 14 | 21 | 28 | 7 | 47 | 20 | 20 | 2 | 13 | 14 | 35 | 4 | 20 | 16 | 59 | 1 | 23 | 13 | 5 |
| 17 | 4 | 30 | 16 | 36 | 1 | 43 | 14 | 2 | 9 | 44 | 21 | 59 | 8 | 21 | 21 | 0 | 2 | 54 | 15 | 12 | 5 | 10 | 17 | 42 | 2 | 8 | 14 | 4 |
| 18 | 5 | 7 | 17 | 7 | 2 | 21 | 14 | 49 | 10 | 7 | 22 | 31 | 8 | 56 | 21 | 45 | 3 | 20 | 15 | 48 | 5 | 59 | 18 | 33 | 2 | 55 | 15 | 3 |
| 19 | 5 | 43 | 17 | 50 | 3 | 4 | 4 | 40 | 10 | 54 | 23 | 12 | 9 | 39 | 22 | 40 | 4 | 8 | 16 | 29 | 6 | 55 | 19 | 34 | 3 | 44 | 16 | 3 |
| 20 | 6 | 45 | 18 | 49 | 3 | 57 | 10 | 41 | 11 | 43 | 23 | 15 | 10 | 30 | 23 | 45 | 4 | 51 | 17 | 42 | 7 | 47 | 20 | 34 | 4 | 44 | 17 | 4 |
| 21 | 7 | 53 | 19 | 56 | 5 | 3 | 7 | 55 | 0 | 8 | 12 | 51 | 11 | 34 | | | 5 | 45 | 19 | 4 | 8 | 45 | 21 | 39 | 5 | 46 | 18 | 4 |
| 22 | 9 | 8 | 21 | 10 | 6 | 15 | 19 | 5 | 1 | 25 | 14 | 12 | 1 | 0 | 12 | 50 | 7 | 8 | 20 | 26 | 9 | 57 | 22 | 43 | 6 | 51 | 19 | 4 |
| 23 | 10 | 23 | 22 | 13 | 7 | 22 | 20 | 2 | 2 | 47 | 15 | 25 | 2 | 5 | 14 | 0 | 8 | 23 | 21 | 22 | 10 | 55 | 23 | 36 | 7 | 50 | 20 | 3 |
| 24 | 11 | 25 | 23 | 26 | 8 | 8 | 20 | 51 | 3 | 25 | 16 | 24 | 2 | 56 | 14 | 56 | 9 | 2 | 22 | 2 | 11 | 46 | | | 8 | 40 | 21 | 1 |
| 25 | | | 22 | 9 | 9 | 5 | 21 | 34 | 4 | 5 | 17 | 15 | 3 | 40 | 15 | 45 | 10 | 14 | 22 | 40 | 0 | 19 | 12 | 30 | 9 | 23 | 21 | 5 |
| 26 | 0 | 13 | 12 | 46 | 9 | 49 | 22 | 14 | 5 | 39 | 17 | 59 | 4 | 20 | 16 | 27 | 10 | 56 | 23 | 20 | 1 | 0 | 13 | 11 | 10 | 1 | 22 | 2 |
| 27 | 0 | 52 | 13 | 22 | 10 | 30 | 22 | 54 | 6 | 22 | 18 | 42 | 4 | 58 | 17 | 12 | 11 | 37 | 21 | 57 | 1 | 38 | 13 | 47 | 10 | 32 | 23 | 3 |
| 28 | 1 | 33 | 14 | 0 | 1 | 13 | 23 | 35 | 7 | 6 | 19 | 23 | 5 | 36 | 17 | 55 | 12 | 15 | 22 | 15 | 2 | 11 | 14 | 27 | 11 | 14 | 23 | 3 |
| 29 | 2 | 4 | 14 | 40 | 11 | 57 | | | 8 | 47 | 20 | 6 | 6 | 16 | 18 | 41 | 0 | 35 | 22 | 29 | 1 | 48 | 15 | 11 | 12 | 54 | | |
| 30 | 3 | 0 | 15 | 22 | 0 | 10 | 22 | 42 | 8 | 32 | 20 | 50 | 6 | 57 | 19 | 29 | 1 | 15 | 13 | 48 | 3 | 34 | 16 | 1 | 0 | 10 | 12 | 4 |
| 31 | 3 | 46 | 16 | 4 | 1 | 2 | 13 | 30 | 9 | 20 | 21 | 36 | 7 | 40 | 20 | 20 | 2 | 58 | 14 | 44 | 4 | 24 | 16 | 57 | 1 | 6 | 13 | 4 |

of PLANETS (N. 0. 12)

MOON'S AND EVENING STARS

MAY

| JUPITER | | | |
|---------|---|----|----|
| D | h | m | s |
| 4 | 4 | 57 | 13 |
| 11 | 4 | 41 | 12 |
| 18 | 4 | 19 | 12 |
| 25 | 3 | 55 | 11 |

MARS

| MARS | | | |
|------|---|----|---|
| D | h | m | s |
| 4 | 3 | 30 | 9 |
| 11 | 3 | 12 | 9 |
| 18 | 2 | 53 | 9 |
| 25 | 2 | 35 | 9 |

2 JUPITER is c 1 1/2 to the e of its apia 11 1/2
a little e of the moon's a b fore th sky
da k Mag tude = 2 3
3 SATURN is a n c 1 star is a before dnl 1
in the greater 1 rt of the n 11 1/2 Mag tude = 4

| DAY OF | | Fests and Festivals Remarkable Days—Events SUN'S LONGITUDE 90° 3 22 44 | THE SUN | | DAYS | |
|--------|----|--|---------|-------|-----------|-------------|
| M | W | | Rises | Sets | 11th Year | 1st of Year |
| 1 | S | Sunday after Ascension Lord Howe's Victory 1794 | 3 31 | 20 5 | 152 | 213 |
| 2 | M | Thomas Hardy b 1830 Sir Redvers Buller, V.C., d 1908 | 3 50 | 20 6 | 153 | 212 |
| 3 | | Arvey died 1657 | 3 50 | 20 7 | 154 | 211 |
| 4 | | Agenta 1859 | 3 49 | 20 8 | 155 | 210 |
| 5 | | | 3 48 | 20 9 | 156 | 209 |
| 6 | | George I born 1860 | 3 48 | 20 10 | 157 | 208 |
| 7 | | 1917 | 3 47 | 20 10 | 158 | 207 |
| 8 | S | 21st Sunday Pentecost Thomas Paine d 1809 | 3 47 | 20 11 | 159 | 206 |
| 9 | M | 21st Monday Bank Holiday Adm Sturdee b 1859 | 3 46 | 20 12 | 160 | 205 |
| 10 | Tu | 21st Tuesday Cameroons captured 1915 | 3 46 | 20 13 | 161 | 204 |
| 11 | W | St Lunsaris Friar Roger Bacon died 1292 | 3 45 | 20 14 | 162 | 203 |
| 12 | Th | Sir Harry Johnston b 1858 Villers Cotterets 1918 | 3 45 | 20 14 | 163 | 202 |
| 13 | F | Dr Thomas Arnold Rugby born 1795 | 3 45 | 20 15 | 164 | 201 |
| 14 | S | Napoleon 1645 Sir H Vane behd d 1662 Marengo 1800 | 3 45 | 20 16 | 165 | 200 |
| 15 | S | Trinity Sunday Magna Charta sealed, 1215 | 3 44 | 20 16 | 166 | 199 |
| 16 | M | Dettingen 1743 Quatre Bras 1815 Hooge 1915 | 3 44 | 20 17 | 167 | 198 |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | S | 2nd Sunday after Trinity | | | | |
| 30 | M | R Parker, mutineer | | | | |

PHASES OF THE MOON

| | |
|------------------------------|---------------|
| ☾ First Quarter | 3/ 22h 56 3 L |
| ☉ Full Moon | 11 6 11 7 |
| ☾ Last Quarter | 19 9 0 4 |
| ☉ New Moon | 26 13 46 7 |
| Apogee 26d 0 9h 25 850 miles | |
| Perigee 2d 3 3/ 224 140 | |

See note on page 18

MONTHLY NOTES

June 4. Eton celebration day

4 Derby Day

24. Midsummer Day Quarter Day Sheriffs of London to be elected by the liverymen

29 (to July 4) Lunars 4th Cold Period

— Quarter Sessions to be held within the period of 22 days immediately preceding or immediately following June 24.

THE SUN (Mean Noon)

MEMORANDA

| Lap Times | | Thruxton (Main 2001) | | | | | | Internal Time of Week Start | | New Time | |
|-----------|------|----------------------|------|-------|-------|-----|---------|-----------------------------|---------|----------|-------|
| Lap | Time | Lap | Time | Lap | Time | Lap | Time | Lap | Time | Lap | Time |
| 1 | 2:28 | 0:37 | 4 | 34:31 | 10:23 | 21 | 59:28 | 0:35 | 4:36:50 | 7 | 13:47 |
| 2 | 2:28 | 0:39 | 4 | 34:37 | 10:24 | 22 | 59:40 | 0:33 | 4:40:55 | 7 | 19:51 |
| 3 | 2:29 | 0:40 | 4 | 34:43 | 10:26 | 23 | 1:00:00 | 0:32 | 4:44:52 | 7 | 15:55 |
| 4 | 2:29 | 0:42 | 4 | 34:49 | 10:27 | 24 | 1:00:12 | 0:30 | 4:48:48 | 7 | 11:59 |
| 5 | 2:29 | 0:43 | 4 | 34:56 | 10:29 | 25 | 1:00:25 | 0:28 | 4:52:45 | 7 | 8:33 |
| 6 | 2:29 | 0:44 | 4 | 35:03 | 10:30 | 26 | 1:00:38 | 0:27 | 4:56:42 | 7 | 4:7 |
| 7 | 2:29 | 0:46 | 4 | 35:10 | 10:31 | 27 | 1:00:51 | 0:25 | 5:00:38 | 7 | 0:12 |
| 8 | 2:29 | 0:47 | 5 | 35:18 | 10:32 | 28 | 1:01:04 | 0:23 | 5:04:35 | 8 | 58:15 |
| 9 | 2:29 | 0:48 | 5 | 35:26 | 10:34 | 29 | 1:01:17 | 0:21 | 5:08:32 | 8 | 54:19 |
| 10 | 2:29 | 0:50 | 5 | 35:34 | 10:35 | 30 | 1:01:30 | 0:20 | 5:12:28 | 8 | 48:23 |
| 11 | 2:29 | 0:51 | 5 | 35:42 | 10:36 | 31 | 1:01:43 | 0:18 | 5:16:24 | 8 | 44:27 |
| 12 | 2:29 | 0:52 | 5 | 35:50 | 10:37 | 32 | 1:01:56 | 0:17 | 5:20:21 | 8 | 40:31 |
| 13 | 2:29 | 0:53 | 5 | 35:58 | 10:38 | 33 | 1:02:09 | 0:15 | 5:24:17 | 8 | 36:35 |
| 14 | 2:29 | 0:54 | 5 | 36:06 | 10:39 | 34 | 1:02:22 | 0:13 | 5:28:14 | 8 | 32:40 |
| 15 | 2:29 | 0:55 | 5 | 36:14 | 10:40 | 35 | 1:02:35 | 0:12 | 5:32:11 | 8 | 28:44 |
| 16 | 2:29 | 0:56 | 5 | 36:22 | 10:41 | 36 | 1:02:48 | 0:11 | 5:36:08 | 8 | 24:48 |
| 17 | 2:29 | 0:57 | 5 | 36:30 | 10:42 | 37 | 1:03:01 | 0:10 | 5:40:05 | 8 | 20:52 |
| 18 | 2:29 | 0:58 | 5 | 36:38 | 10:43 | 38 | 1:03:14 | 0:09 | 5:44:02 | 8 | 16:56 |
| 19 | 2:29 | 0:59 | 5 | 36:46 | 10:44 | 39 | 1:03:27 | 0:08 | 5:47:59 | 8 | 13:00 |
| 20 | 2:29 | 1:00 | 5 | 36:54 | 10:45 | 40 | 1:03:40 | 0:07 | 5:51:56 | 8 | 9:04 |
| 21 | 2:29 | 1:01 | 5 | 37:02 | 10:46 | 41 | 1:03:53 | 0:06 | 5:55:53 | 8 | 5:08 |
| 22 | 2:29 | 1:02 | 5 | 37:10 | 10:47 | 42 | 1:04:06 | 0:05 | 5:59:50 | 8 | 1:12 |
| 23 | 2:29 | 1:03 | 5 | 37:18 | 10:48 | 43 | 1:04:19 | 0:04 | 6:03:47 | 8 | 53:17 |
| 24 | 2:29 | 1:04 | 5 | 37:26 | 10:49 | 44 | 1:04:32 | 0:03 | 6:07:44 | 8 | 49:21 |
| 25 | 2:29 | 1:05 | 5 | 37:34 | 10:50 | 45 | 1:04:45 | 0:02 | 6:11:41 | 8 | 45:25 |
| 26 | 2:29 | 1:06 | 5 | 37:42 | 10:51 | 46 | 1:04:58 | 0:01 | 6:15:38 | 8 | 41:29 |
| 27 | 2:29 | 1:07 | 5 | 37:50 | 10:52 | 47 | 1:05:11 | 0:00 | 6:19:35 | 8 | 37:33 |
| 28 | 2:29 | 1:08 | 5 | 37:58 | 10:53 | 48 | 1:05:24 | 0:00 | 6:23:32 | 8 | 33:37 |
| 29 | 2:29 | 1:09 | 5 | 38:06 | 10:54 | 49 | 1:05:37 | 0:00 | 6:27:29 | 8 | 29:41 |
| 30 | 2:29 | 1:10 | 5 | 38:14 | 10:55 | 50 | 1:05:50 | 0:00 | 6:31:26 | 8 | 25:45 |

METEOROLOGICAL OBSERVATIONS JUNE 1920

[illegible]

HELIOGRAPHIC ELEMENT

| 44 Non Day | Sun's Axis | Centre of E | |
|------------------|---------------|-------------|-----|
| | | Lat. | Lo. |
| 5 | 34 0 W | | |
| 15 | 9 9 | | |
| 25 | 5 5 W | | |

(See Note, p 4.) THE MOON

| M. J. | At Greenwich Midnight | | | | | | | | | | Age | Use the planet in almost wholly in to be vital in this to p 28 |
|-------|-----------------------|-------|-----------------|-------------|-----------------|---------------|----------|----------|-----------|----------|-------|--|
| | Rises | Sets | Right Ascension | Declination | Hourly Parallax | Semi-Diameter | Distance | Latitude | Longitude | Altitude | | |
| 1 | 7 49 | 16 21 | 0 32 | 9 17 | 20 | 21 | 4 11 | 59 | 46 | 16 16 | 4 18 | 14 |
| 2 | 9 18 | 17 57 | 0 52 | 10 13 | 39 | 15 | 53 | 59 | 23 | 16 19 | 5 18 | 15 |
| 3 | 10 47 | 18 8 | 1 8 | 11 6 | 34 | 9 | 57 | 58 | 58 | 16 4 | 6 18 | 16 |
| 4 | 12 12 | 18 56 | 1 22 | 12 56 | 7 | 3 | 36 | 59 | 58 | 30 | 7 18 | 17 |
| 5 | 13 33 | 19 42 | 1 34 | 14 44 | 31 | 8 | 47 | 58 | 58 | 0 15 | 8 18 | 18 |
| 6 | 14 53 | 20 28 | 1 46 | 16 32 | 41 | 8 | 58 | 57 | 59 | 15 40 | 9 18 | 19 |
| 7 | 16 14 | 21 14 | 2 1 | 18 21 | 38 | 14 | 39 | 56 | 59 | 15 31 | 10 18 | 20 |

CONJUNCTIONS, ECLIPSES, AND OTHER CELESTIAL PHENOMENA.

June 1. Civil twilight ends at 11h 28m. There is no civil night in this month in the latitude of London. The length of the Day from Sunrise to Sunset on June 1 is 16h 14m. Its length is nearly 16h 34m from the 10th to the 24th.

June 22. 21st Saturn in conjunction with γ $5^{\circ} 2'$

June 15. Mercury at Greatest $23^{\circ} 11'$

Jupiter in conjunc

Sun enters the zodiac (Aries)

Mars in conjunc-
tion with δ $2^{\circ} 8'$

Mercury in con-
junction with γ $5^{\circ} 2'$

Jupiter in con-
junction with δ $2^{\circ} 8'$

June 29. 28th Venus in conjunc-
tion with δ $9^{\circ} 3'$

In this month the Morning
increase about 7' up to the 17th
and then decrease 4'. The After-
noon increase at 11h 21m up
to the 25th, and then decrease
slightly.

APPARENT RIGHT ASCENSION AND DECLINATION OF THE PLANETS AT NOON.

| D. | ☿ MERCURY | | | ♀ VENUS | | | ♂ MARS | | | ♃ JUPITER | | | ♄ SATURN | | |
|----|-----------|------|-------|---------|------|----|--------|------|------|-----------|-------|---|----------|------|---------|
| | R.A. | Dec. | | R.A. | Dec. | | R.A. | Dec. | | R.A. | Dec. | | R.A. | Dec. | |
| 5 | 3 31 | 49 | 14 59 | 7 | 6 59 | 57 | 24 24 | 1 | 1 59 | 43 | 12 11 | 8 | 5 38 | 38 | 23 7 3 |
| 10 | 3 40 | 59 | 15 36 | 0 | 7 26 | 4 | 23 45 | 0 | 2 13 | 55 | 12 29 | 4 | 5 43 | 36 | 23 10 1 |
| 15 | 3 50 | 53 | 16 53 | 1 | 7 51 | 45 | 22 49 | 4 | 2 28 | 10 | 13 43 | 0 | 5 48 | 35 | 23 12 2 |
| 20 | 4 19 | 17 | 18 35 | 8 | 8 16 | 57 | 21 38 | 0 | 2 42 | 28 | 14 54 | 3 | 5 53 | 34 | 23 13 8 |
| 25 | 4 46 | 10 | 20 31 | 3 | 8 41 | 36 | 20 12 | 2 | 2 56 | 49 | 16 1 | 1 | 5 58 | 34 | 23 14 7 |
| 30 | 5 23 | 34 | 22 17 | 5 | 9 5 | 39 | 18 33 | 2 | 3 11 | 12 | 17 3 | 9 | 6 3 | 32 | 23 15 1 |

THE SUN AND PLANETS

| HORIZONTAL PARALLAX | | | | | | ANGULAR SEMIDIAMETER | | | | | | ♅ URANUS | | ♆ NEPTUNE | |
|---------------------|---|---|---|---|---|----------------------|---|---|---|---|---|----------|------|-----------|---------|
| D. | ☉ | ☿ | ♀ | ♂ | ♃ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | R.A. | Dec. | R.A. | Dec. |
| 10 | " | " | " | " | " | " | " | " | " | " | " | 10 | 55 2 | 5 11 | 10 12 2 |
| 20 | " | " | " | " | " | " | " | " | " | " | " | 10 | 56 2 | 5 17 | 10 11 0 |

Time of High Water at the undermentioned Places—

| H. M. | LONDON DOCKS | | LIVERPOOL | | BRISTOL | | HULL (Immingham) | | GREENOCK | | LISBON | | HONG KONG | |
|-------|--------------|----|-----------|----|---------|----|------------------|----|----------|----|--------|----|-----------|----|
| | h. | m. | h. | m. | h. | m. | h. | m. | h. | m. | h. | m. | h. | m. |
| 1 | 4 | 34 | 1 | 11 | 1 | 11 | 1 | 11 | 1 | 11 | 1 | 11 | 1 | 11 |
| 2 | 5 | 26 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 | 2 | 10 |
| 3 | 6 | 25 | 3 | 9 | 3 | 9 | 3 | 9 | 3 | 9 | 3 | 9 | 3 | 9 |
| 4 | 7 | 34 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 | 4 | 8 |
| 5 | 8 | 43 | 5 | 56 | 5 | 45 | 5 | 34 | 5 | 59 | 5 | 31 | 5 | 20 |
| 6 | 9 | 58 | 6 | 15 | 6 | 19 | 6 | 45 | 6 | 44 | 6 | 23 | 6 | 27 |
| 7 | 10 | 8 | 7 | 21 | 7 | 29 | 7 | 53 | 7 | 53 | 7 | 25 | 7 | 28 |
| 8 | 11 | 53 | 8 | 5 | 8 | 34 | 8 | 39 | 8 | 41 | 8 | 28 | 8 | 22 |
| 9 | 12 | 10 | 9 | 54 | 9 | 39 | 9 | 42 | 9 | 37 | 9 | 31 | 9 | 24 |
| 10 | 1 | 55 | 10 | 38 | 10 | 40 | 10 | 44 | 10 | 32 | 10 | 34 | 10 | 23 |
| 11 | 1 | 38 | 11 | 20 | 11 | 23 | 11 | 32 | 11 | 24 | 11 | 45 | 11 | 34 |
| 12 | 2 | 22 | 12 | 30 | 12 | 0 | 12 | 18 | 12 | 56 | 12 | 53 | 12 | 48 |
| 13 | 3 | 4 | 1 | 15 | 1 | 12 | 1 | 15 | 1 | 44 | 1 | 50 | 1 | 25 |
| 14 | 3 | 43 | 2 | 48 | 2 | 15 | 2 | 16 | 2 | 39 | 2 | 45 | 2 | 13 |
| 15 | 4 | 17 | 2 | 45 | 3 | 35 | 3 | 20 | 3 | 28 | 3 | 54 | 3 | 43 |
| 16 | 4 | 52 | 3 | 14 | 4 | 22 | 4 | 38 | 4 | 15 | 4 | 30 | 4 | 30 |
| 17 | 5 | 31 | 4 | 40 | 5 | 11 | 5 | 15 | 5 | 3 | 5 | 18 | 5 | 15 |
| 18 | 6 | 18 | 5 | 35 | 6 | 15 | 6 | 8 | 6 | 53 | 6 | 53 | 6 | 10 |
| 19 | 7 | 12 | 6 | 29 | 7 | 16 | 7 | 10 | 7 | 44 | 7 | 44 | 7 | 4 |
| 20 | 8 | 12 | 7 | 23 | 8 | 12 | 8 | 15 | 8 | 38 | 8 | 38 | 8 | 5 |
| 21 | 9 | 14 | 8 | 25 | 9 | 18 | 9 | 18 | 9 | 32 | 9 | 32 | 9 | 6 |
| 22 | 10 | 18 | 9 | 29 | 10 | 22 | 10 | 22 | 10 | 26 | 10 | 26 | 10 | 7 |
| 23 | 11 | 17 | 10 | 28 | 11 | 21 | 11 | 20 | 11 | 24 | 11 | 24 | 11 | 8 |
| 24 | 12 | 8 | 11 | 18 | 12 | 12 | 12 | 14 | 12 | 18 | 12 | 18 | 12 | 9 |
| 25 | 1 | 22 | 12 | 55 | 1 | 22 | 1 | 16 | 1 | 12 | 1 | 12 | 1 | 10 |
| 26 | 2 | 13 | 1 | 40 | 2 | 16 | 2 | 13 | 2 | 5 | 2 | 5 | 2 | 11 |
| 27 | 3 | 3 | 2 | 26 | 3 | 14 | 3 | 8 | 3 | 2 | 3 | 2 | 3 | 12 |
| 28 | 4 | 52 | 3 | 19 | 4 | 7 | 4 | 28 | 4 | 1 | 4 | 1 | 4 | 13 |
| 29 | 5 | 40 | 4 | 55 | 5 | 54 | 5 | 17 | 5 | 53 | 5 | 16 | 5 | 13 |
| 30 | 6 | 30 | 5 | 42 | 6 | 43 | 6 | 7 | 6 | 45 | 6 | 17 | 6 | 14 |

RISING & SETTING AND MOTION
OF PLANETS (N. 12°)

MERCURY ☿

VENUS ♀

MOONING AND EYING STARS

☿ MERCURY is a morning star, but will not be visible

☿ - - - ☿

♂ MARS rises to the ENE an hour or two after midnight and may be seen to the brightening sky

♃ JUPITER being in conjunction with the Sun on the 20th will not be seen this month

♄ SATURN at its brightest at the end of the month will be at the horizon during almost all the few hours of darkness. Magnitude 0.3, on July 1 & 2.

MARS ♂

JUPITER ♃

| | Rises | South | Sets | Rises | South | Sets |
|-------|-------|-------|-------|-------|-------|-------|
| h. m. | h. m. | h. m. | h. m. | h. m. | h. m. | h. m. |
| 1 | 8 27 | 9 14 | 10 7 | 4 44 | 12 58 | 21 11 |
| 2 | 8 59 | 9 46 | 10 30 | 4 23 | 12 37 | 20 51 |
| 3 | 9 48 | 10 36 | 11 22 | 4 0 | 12 16 | 20 31 |
| 4 | 10 25 | 11 19 | 12 13 | 3 41 | 11 56 | 20 10 |
| 5 | 11 0 | 12 4 | 13 15 | 3 22 | 11 35 | 19 50 |

SATURN ♄

| | Rises | South | Sets |
|-------|-------|-------|-------|
| h. m. | h. m. | h. m. | h. m. |
| 1 | 10 20 | 11 4 | 12 4 |

because of the duller weather, this was transferred to Pentecost.



1sts and Festivals
Remarkable Days—Events
SUN'S LONGITUDE 120° 52' 15"



| | | | | THE SUN | | DAYS | |
|----|----|--------------------------|---|---------|-------|-------------|-------------|
| | | | | Place | Time | of the Year | of the Year |
| 1 | W | 1st Sunday after Trinity | Donation Day Canada (1867) | 3 49 | 20 18 | 181 | 183 |
| 2 | W | | Adm Cradock born 1861 d (Colonel) Nov 1 1914 | 3 49 | 20 18 | 183 | 182 |
| 3 | Th | | Gettysburg 1863 Sado & 1866 King Harkon b 1872 | 3 50 | 20 18 | 184 | 181 |
| 4 | L | | INDEPENDENCE DAY U.S.A (1776) Ulundi 1879 | 3 51 | 20 17 | 185 | 180 |
| 5 | S | | British Airship R34 crosses Atlantic 1919 | 3 51 | 20 17 | 186 | 179 |
| 6 | S | | 3rd Sunday after Trinity King's marriage (1893) | 3 52 | 20 16 | 187 | 178 |
| 7 | U | | Old Vid minor Day Treaty of Paris 1807 | 3 53 | 20 16 | 188 | 177 |
| 8 | T | | Joseph Chamberlain born 1836 died July 2 1914 | 3 54 | 20 15 | 189 | 176 |
| 9 | W | | Senapach 1386 Cernin & W Africa surrend 1915 | 3 55 | 20 14 | 190 | 175 |
| 10 | | | | 3 56 | 20 14 | 191 | 174 |
| 11 | | | | 3 57 | 20 13 | 192 | 173 |
| 12 | | | | 3 58 | 20 12 | 193 | 172 |
| 13 | S | | 4th & 1st Trinity Rt Hon Lord Pasfield b 1839 | 3 59 | 20 11 | 194 | 171 |
| 14 | M | | La till termel 1789 French General Holiday | 4 0 | 20 10 | 195 | 170 |
| 15 | Tu | | St Swtium & Day Second Battle of the Marne 1918 | 4 1 | 20 9 | 196 | 169 |
| 16 | W | | 1841 at Canalop 1761 Pu chirst 1841 | 4 2 | 20 8 | 197 | 168 |
| 17 | Th | | Di laac Waits b 1674 Franco Russian War 1870 | 4 4 | 20 7 | 198 | 167 |
| 18 | F | | Mar hal Poch & great counter attack launched 1918 | 4 5 | 20 6 | 199 | 166 |
| 19 | S | | 1840 Day Celebrations in Britain 1919 | 4 6 | 20 5 | 200 | 165 |
| 20 | S | | 5th Sunday after Trinity Army Purchase abol 1871 | 4 7 | 20 4 | 201 | 164 |
| 21 | M | | I go Jones died 1652 Robert Burns post d 1796 | 4 9 | 20 3 | 202 | 163 |
| 22 | Tu | | Salamanca 181 Allies force 1 the Marne 1918 | 4 10 | 20 2 | 203 | 162 |
| 23 | W | | Guznee 1839 Au trian Ultimatum to Serbia 1914 | 4 11 | 20 0 | 204 | 161 |
| 24 | Th | | Gibraltar captured 1704 Lord Cardwell born 1813 | 4 13 | 19 59 | 205 | 160 |
| 25 | F | | St James Earl of Balfour & Co born 1848 | 4 14 | 19 58 | 206 | 159 |
| 26 | S | | G L Shaw author and playwright born 1856 | 4 16 | 19 56 | 207 | 158 |
| 27 | S | | 6th Sunday after Trinity Capt Fryatt shot 1916 | 4 17 | 19 55 | 208 | 157 |
| 28 | | | | 4 18 | 19 53 | 209 | 156 |
| 29 | | | | 4 20 | 19 52 | 210 | 155 |
| 30 | | | | 4 22 | 19 50 | 211 | 154 |
| 31 | | | TRINITY LAW SUIT & END 3rd battle of Ypres 1917 | 4 23 | 19 49 | 212 | 153 |

PHASES OF THE MOON

See note on page 26

MONTHLY NOTES

- 1st quarter 31 41 31 4
- Full Moon 10 20 13
- 3rd quarter 18 23 29 2
- New Moon 25 20 41 9

4th on 23d 23 6/ 252 306 miles

10 2 0 26 1 20 14 222,261

Mean Length of Day Mode July 2 29 20

RAIN FELL AT GREENWICH IN JULY 1929
on 22 days & total fall 1.76 inches below the
average 1.70 48 in h

1930]

JULY SEVENTH MONTH

MEMORANDA

| Direction of Wind | | THIRTEEN (Mean Noon) | | | | | Interval Time at Noon Sun. | | Mean Time at Noon Sun. | |
|-------------------|------|----------------------|---------|-------|---------|---------|----------------------------|---------|------------------------|-------|
| Wind | Dir. | Force | Wind | Force | Wind | Force | Wind | Force | Wind | Force |
| 1 | 3 34 | 0.40 | 6 38 | 47 | 10 33 | 23 9 1 | 0.16 | 6 35 16 | 5 25 49 | 1 |
| 2 | 3 43 | 0.43 | 6 42 | 55 | 10 34 | 23 5 0 | 0.18 | 6 39 12 | 5 21 53 | 2 |
| 3 | 3 55 | 0.47 | 6 47 | 3 | 10 33 | 23 0 6 | 0.19 | 6 43 9 | 5 17 57 | 3 |
| 4 | 4 6 | 0.45 | 6 51 | 11 | 10 31 | 22 53 7 | 0.21 | 6 47 5 | 5 14 1 | 4 |
| 5 | 4 17 | 0.44 | 6 55 | 18 | 10 30 | 22 50 5 | 0.23 | 6 51 2 | 5 10 6 | 5 |
| 6 | 4 27 | 0.43 | 6 59 | 25 | 10 28 | 22 44 0 | 0.24 | 6 54 48 | 5 6 10 | 6 |
| 7 | 4 37 | 0.41 | 7 3 38 | 30 27 | 22 38 8 | 0.26 | 6 58 55 | 5 2 14 | 7 | 25 |
| 8 | 4 47 | 0.39 | 7 7 38 | 10 25 | 22 31 4 | 0.28 | 7 2 51 | 4 58 18 | 8 | 5 |
| 9 | 4 55 | 0.38 | 7 11 44 | 10 24 | 22 25 6 | 0.29 | 7 6 48 | 4 54 22 | 9 | 6 |
| 10 | 5 5 | 0.36 | 7 15 42 | 10 22 | 22 18 4 | 0.31 | 7 10 45 | 4 50 26 | 10 | 7 |
| 11 | 5 13 | 0.34 | 7 19 54 | 10 20 | 22 10 8 | 0.32 | 7 14 41 | 4 46 30 | 11 | 8 |
| 12 | 5 21 | 0.32 | 7 23 59 | 10 18 | 22 2 8 | 0.34 | 7 18 38 | 4 42 34 | 12 | 9 |
| 13 | 5 29 | 0.31 | 7 28 3 | 10 16 | 21 54 5 | 0.36 | 7 22 34 | 4 38 38 | 13 | 10 |
| 14 | 5 26 | 0.29 | 7 32 7 | 10 14 | 21 45 8 | 0.37 | 7 26 31 | 4 34 42 | 14 | 11 |
| 15 | 5 48 | 0.27 | 7 36 10 | 10 12 | 21 36 7 | 0.39 | 7 30 27 | 4 30 46 | 15 | 12 |
| 16 | 5 49 | 0.25 | 7 40 12 | 10 10 | 21 27 2 | 0.40 | 7 34 24 | 4 26 51 | 16 | 13 |
| 17 | 5 54 | 0.23 | 7 44 15 | 10 08 | 21 17 4 | 0.42 | 7 38 20 | 4 22 55 | 17 | 14 |
| 18 | 5 59 | 0.20 | 7 48 16 | 10 06 | 21 7 2 | 0.43 | 7 42 17 | 4 18 59 | 18 | 15 |
| 19 | 6 4 | 0.18 | 7 52 18 | 10 04 | 20 56 7 | 0.45 | 7 46 14 | 4 15 3 | 19 | 16 |
| 20 | 6 8 | 0.16 | 7 56 18 | 10 02 | 20 45 8 | 0.46 | 7 50 10 | 4 11 7 | 20 | 17 |
| 21 | 6 12 | 0.14 | 8 0 18 | 10 00 | 20 34 5 | 0.48 | 7 54 7 | 4 7 11 | 21 | 18 |
| 22 | 6 15 | 0.12 | 8 4 18 | 9 97 | 20 22 9 | 0.49 | 7 58 3 | 4 3 15 | 22 | 19 |
| 23 | 6 17 | 0.09 | 8 8 17 | 9 95 | 20 11 0 | 0.50 | 8 2 0 | 3 59 19 | 23 | 20 |
| 24 | 6 19 | 0.07 | 8 12 16 | 9 93 | 19 58 7 | 0.52 | 8 5 56 | 3 55 23 | 24 | 21 |
| 25 | 6 21 | 0.04 | 8 16 14 | 9 90 | 19 46 1 | 0.53 | 8 9 53 | 3 51 27 | 25 | 22 |
| 26 | 6 21 | 0.02 | 8 20 12 | 9 88 | 19 31 1 | 0.55 | 8 13 49 | 3 47 31 | 26 | 23 |
| 27 | 6 22 | 0.01 | 8 24 8 | 9 85 | 19 16 9 | 0.56 | 8 17 46 | 3 43 35 | 27 | 24 |
| 28 | 6 21 | 0.03 | 8 28 4 | 9 83 | 19 6 3 | 0.57 | 8 21 43 | 3 39 40 | 28 | 25 |
| 29 | 6 20 | 0.06 | 8 31 59 | 9 80 | 18 52 4 | 0.59 | 8 25 39 | 3 35 44 | 29 | 26 |
| 30 | 6 18 | 0.08 | 8 35 54 | 9 77 | 18 38 1 | 0.60 | 8 29 36 | 3 31 48 | 30 | 27 |
| 31 | 6 16 | 0.11 | 8 39 48 | 9 75 | 18 23 6 | 0.61 | 8 33 32 | 3 27 52 | 31 | 28 |

METEOROLOGICAL OBSERVATIONS JULY 1929

| Wind | Dir. | Force | Wind | Force | Wind | Force | Wind | Force | Wind | Force |
|------|------|-------|------|--------|------|----------|------|-------|------|-------|
| 9 | 74 4 | 49 3 | 4 | 047 | 1 3 | WSW | 10 2 | 6 4 | 25 | 29 |
| 10 | 79 1 | 52 9 | 5 | 021 | 3 2 | SW | 6 4 | 9 1 | 26 | 30 |
| 11 | 85 2 | 57 2 | 7 | 087 | 1 0 | SW | 13 0 | 14 6 | 27 | 31 |
| 12 | 83 1 | 52 0 | 61 9 | 082 | 5 3 | NW | 14 7 | 15 1 | 28 | 32 |
| 13 | 75 6 | 50 0 | 63 1 | 221 | 1 3 | NE | 14 8 | 16 1 | 29 | 33 |
| 14 | 76 4 | 46 2 | 3 | 214 | 0 7 | ESE | 14 6 | 16 1 | 30 | 34 |
| 15 | 76 8 | 47 2 | 4 | 30 087 | 4 7 | ESE | 14 7 | 16 1 | 31 | 35 |
| 16 | 86 0 | 53 2 | 4 | 20 844 | 1 8 | ESE | 14 7 | 16 1 | 32 | 36 |
| 17 | 84 7 | 61 1 | 4 | 848 | 2 0 | WSW | 14 7 | 16 1 | 33 | 37 |
| 18 | 81 0 | 56 0 | 3 | 984 | 1 9 | WSW | 14 7 | 16 1 | 34 | 38 |
| 19 | 85 7 | 52 0 | 2 | 963 | 0 5 | WSW | 14 3 | 16 1 | 35 | 39 |
| 20 | 90 3 | 55 6 | 2 | 864 | 4 2 | Variable | 14 3 | 16 1 | 36 | 40 |
| 21 | 81 8 | 62 3 | 2 | 827 | 1 6 | SW | 14 3 | 16 1 | 37 | 41 |
| 22 | 78 8 | 60 7 | 1 | 849 | 5 3 | WSW | 14 3 | 16 1 | 38 | 42 |
| 23 | 81 1 | 59 1 | 61 0 | 916 | 2 1 | WSW | 14 3 | 16 1 | 39 | 43 |
| 24 | 76 4 | 54 7 | 62 9 | 740 | 1 0 | W | 14 3 | 16 1 | 40 | 44 |
| 25 | 71 0 | 51 1 | 7 | 801 | 2 0 | F | 14 3 | 16 1 | 41 | 45 |
| 26 | 73 9 | 47 9 | 5 | 29 947 | 0 6 | NE | 14 3 | 16 1 | 42 | 46 |
| 27 | 70 0 | 50 0 | 4 | 30 068 | 1 1 | NE | 14 3 | 16 1 | 43 | 47 |
| 28 | 74 0 | 52 9 | 3 | 29 259 | 1 8 | SW | 14 3 | 16 1 | 44 | 48 |
| 29 | 75 1 | 57 6 | 3 | 355 | 2 9 | W | 14 3 | 16 1 | 45 | 49 |
| 30 | 74 0 | 53 0 | 2 | 693 | 3 1 | WSW | 14 3 | 16 1 | 46 | 50 |
| 31 | 68 2 | 55 2 | 62 2 | 703 | 2 0 | SW | 14 3 | 16 1 | 47 | 51 |
| 32 | 76 2 | 53 2 | 62 7 | 29 863 | — | — | 14 3 | 16 1 | 48 | 52 |

HALOGRAPHIC ELEMENTS

| At | Bar | Wind | Dir. | Force | Lat | Long |
|----|-------|------|----------|-------|------|-------|
| 1 | 101.6 | 10.2 | WSW | 10.2 | 34.2 | 118.2 |
| 2 | 101.6 | 6.4 | SW | 6.4 | 34.2 | 118.2 |
| 3 | 101.6 | 9.1 | SW | 9.1 | 34.2 | 118.2 |
| 4 | 101.6 | 13.0 | NW | 13.0 | 34.2 | 118.2 |
| 5 | 101.6 | 14.8 | NE | 14.8 | 34.2 | 118.2 |
| 6 | 101.6 | 14.2 | ESE | 14.2 | 34.2 | 118.2 |
| 7 | 101.6 | 14.6 | ESE | 14.6 | 34.2 | 118.2 |
| 8 | 101.6 | 13.7 | WSW | 13.7 | 34.2 | 118.2 |
| 9 | 101.6 | 14.7 | WSW | 14.7 | 34.2 | 118.2 |
| 10 | 101.6 | 13.5 | WSW | 13.5 | 34.2 | 118.2 |
| 11 | 101.6 | 14.3 | WSW | 14.3 | 34.2 | 118.2 |
| 12 | 101.6 | 8.3 | Variable | 8.3 | 34.2 | 118.2 |
| 13 | 101.6 | 9.9 | SW | 9.9 | 34.2 | 118.2 |
| 14 | 101.6 | 9.3 | WSW | 9.3 | 34.2 | 118.2 |
| 15 | 101.6 | 6.6 | WSW | 6.6 | 34.2 | 118.2 |
| 16 | 101.6 | 4.0 | W | 4.0 | 34.2 | 118.2 |
| 17 | 101.6 | 10.2 | F | 10.2 | 34.2 | 118.2 |
| 18 | 101.6 | 5.2 | NE | 5.2 | 34.2 | 118.2 |
| 19 | 101.6 | 5.1 | NE | 5.1 | 34.2 | 118.2 |
| 20 | 101.6 | 0.8 | SW | 0.8 | 34.2 | 118.2 |
| 21 | 101.6 | 5.2 | W | 5.2 | 34.2 | 118.2 |
| 22 | 101.6 | 4.1 | WSW | 4.1 | 34.2 | 118.2 |
| 23 | 101.6 | 2.0 | SW | 2.0 | 34.2 | 118.2 |
| 24 | 101.6 | 5.3 | SW | 5.3 | 34.2 | 118.2 |

[See Note, p. 4] THE MOON

| Day of M. | Rise | Set | At | W | Ch | M | Light | Distance | Age |
|-----------|-------|-------|-------|-------|----|------|-------|----------|----------------|
| | H | M | H | M | H | M | | | |
| 1 | 9 57 | 16 53 | 23 29 | 22 43 | 45 | 4 59 | 70 | 59 10 16 | 7 5 10 |
| 2 | 11 21 | 17 40 | 23 42 | 23 33 | 5 | 1 30 | 45 | 58 27 15 | 50 6 10 |
| 3 | 12 42 | 18 26 | 23 54 | 23 29 | 7 | 47 8 | 57 | 44 15 44 | 7 10 |
| 4 | 14 3 | 19 12 | 0 7 | 14 20 | 7 | 23 | 35 | 0 3 15 | 33 8 10 |
| 5 | 15 23 | 19 59 | 0 23 | 14 59 | 57 | 18 | 39 | 6 56 | 26 15 23 9 10 |
| 6 | 16 43 | 20 48 | 0 41 | 15 51 | 32 | 22 | 47 | 9 55 | 53 15 23 10 10 |
| 7 | 17 59 | 21 39 | 1 13 | 16 44 | 57 | 25 | 48 | 0 55 | 23 15 21 10 |
| 8 | 19 10 | 22 32 | 1 51 | 17 39 | 43 | 27 | 30 | 9 54 | 58 14 59 12 10 |
| 9 | 20 8 | 23 25 | 2 42 | 18 34 | 48 | 27 | 51 | 8 54 | 37 14 53 13 10 |
| 10 | 20 53 | 0 17 | 3 45 | 19 28 | 57 | 26 | 51 | 8 54 | 20 14 48 14 10 |
| 11 | 21 25 | 1 7 | 4 55 | 20 21 | 7 | 24 | 37 | 9 54 | 8 14 45 15 10 |
| 12 | 22 49 | 1 54 | 6 7 | 21 20 | 43 | 21 | 20 | 5 54 | 2 14 43 16 10 |
| 13 | 22 6 | 2 33 | 7 20 | 21 57 | 41 | 17 | 22 | 3 54 | 1 14 43 17 10 |
| 14 | 22 20 | 3 20 | 8 31 | 22 42 | 17 | 12 | 25 | 0 54 | 8 14 45 18 10 |
| 15 | 22 31 | 4 0 | 9 42 | 23 25 | 44 | | | | |
| 16 | 22 42 | 4 40 | 10 52 | 0 8 | 24 | | | | |
| 17 | 22 52 | 5 20 | 12 9 | 0 51 | 30 | | | | |
| 18 | 23 4 | 6 3 | 13 20 | 1 36 | 0 | | | | |
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| 22 | 0 1 | 8 35 | 17 27 | 5 12 | 51 | | | | |
| 23 | 0 39 | 9 37 | 18 44 | 6 18 | 23 | | | | |
| 24 | 1 35 | 10 43 | 19 44 | 7 25 | 34 | | | | |
| 25 | 2 52 | 11 49 | 20 27 | 8 31 | 29 | | | | |
| 26 | 4 23 | 12 52 | 20 57 | 9 33 | 56 | | | | |
| 27 | 5 59 | 13 50 | 21 18 | 10 32 | 5 | | | | |
| 28 | 7 32 | 14 44 | 21 34 | 11 26 | 23 | | | | |
| 29 | 9 2 | 15 36 | 21 47 | 12 17 | 51 | | | | |
| 30 | 10 27 | 16 22 | 22 13 | 13 7 | 46 | | | | |
| 31 | 11 49 | 17 9 | 22 13 | 13 57 | 20 | | | | |

Jupiter
Satell tenCONJUNCTIONS ECLIPSES, AND
OTHER CELESTIAL PHENOMENA

July 2 Civil twilight ends
22h 23m In this month there
is no closed night in the lati-
tude of London until after the
autumn when the sun will be 18°
below the horizon at midnight.
The length of the Day on July 2
is 16h 29m.

July 3 Saturn in Opposition
Distance from the earth 838 485 000
miles

July 3 Earth at greatest dis-
tance from the sun Aphelion
Distance 94 447 000 miles

July 5 22h Mercury and Jupi-
ter in conjunction 0° 04' N

July 10 20h Saturn in conjunc-
tion with 2 1° 5' N

July 15 Mercury in Superior
conjunction

July 16 Venus and Neptune in

for large & brilliant of Jupiter with
satellites. The penumbra of
Jupiter will be visible to the
west of the ecliptic.

APPARENT RIGHT ASC.

| DIPLOMA | | | | | | | | | | | | | | DIPLOMA | | | | | | | | | | | | | |
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THE SUN AND PLANETS

| HORIZONTAL PARALLAX | | | | | | | | | | | | | AT CLER OF THE MONTH | | | | | | | | | | | | | U. CRANI | | | U. NEUTRE | | | | |
|---------------------|----------------------------|----|----|---|---|---|---|---|---|----|----|----|----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|-----------|----|----|----|----|
| D | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
| 1 | 5 | 8 | 66 | 7 | 3 | 4 | 7 | 1 | 4 | 10 | 13 | 45 | 2 | 7 | 7 | 0 | 5 | 15 | 0 | 8 | 3 | 10 | 0 | 57 | 5 | 5 | 25 | 10 | 15 | 7 | 11 | 29 | |
| 15 | 8 | 66 | 6 | 7 | 7 | 4 | 8 | 1 | 4 | 10 | 15 | 46 | 2 | 5 | 7 | 4 | 6 | 15 | 1 | 8 | 2 | 10 | 0 | 57 | 7 | 5 | 25 | 10 | 16 | 9 | 11 | 23 | |
| 25 | 8 | 67 | 6 | 7 | 8 | 3 | 5 | 0 | 1 | 5 | 10 | 15 | 46 | 2 | 6 | 7 | 9 | 6 | 15 | 1 | 8 | 2 | 10 | 0 | 57 | 7 | 5 | 25 | 10 | 16 | 9 | 11 | 23 |
| July 25 | 4 in 50 m diam in 1 in 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July 25 | 1 in 50 m diam in 1 in 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

July 25 in a small stream in the
11h 54m North

| DAY OF | | Fasts and Festivals | | THE SUN | | DATA | | DAYS | |
|--------|----|------------------------------|--------------------------------------|------------------------|-------|------------|-----|------|--|
| | | Remarkable Days—Events | | SUN'S LONGITUDE | | Rise. Set. | | | |
| | | | | 1900° 00' 00" 234° 21' | | | | | |
| 1 | F | Lammas | Minden 1759 Nile 1798 | 4 24 | 19 47 | 213 | 152 | | |
| 2 | S | Blenheim 1704 | Caruso tenor singer, died 1921 | 4 26 | 19 46 | 214 | 151 | | |
| 3 | S | 7th S after Trinity | Rt Hon Stanley Baldwin b 1807 | 4 27 | 19 44 | 215 | 150 | | |
| 4 | M | Bank Holiday | Declaration of War, 1914 | 4 29 | 19 42 | 216 | 149 | | |
| 5 | Tu | Admiral Earl Howe died | 1799 | 4 30 | 19 41 | 217 | 148 | | |
| 6 | W | Lord Tennyson laureate b | 1809 Suvla Bay, 1915 | 4 32 | 19 39 | 218 | 147 | | |
| 7 | Th | Old St James's Day | Germans entered Liège 1914 | 4 33 | 19 37 | 219 | 146 | | |
| 8 | F | Sir Erasmus Wilson | dermatologist died 1884 | 4 35 | 19 35 | 220 | 145 | | |
| 9 | S | British Expeditionary Force | landed at Boulogne 1914 | 4 36 | 19 33 | 221 | 144 | | |
| 10 | S | 8th S after Trinity | Greenwich Observatory fnded, 1675 | 4 38 | 19 32 | 222 | 143 | | |
| 11 | M | Half Quarter Day | Cardinal Newman died 1890 | 4 40 | 19 30 | 223 | 142 | | |
| 12 | Tu | George Stephenson died | 1848 born June 9 1781 | 4 41 | 19 28 | 224 | 141 | | |
| 13 | W | Sir George Grove | musician b 1820 d May 28 1900 | 4 43 | 19 26 | 225 | 140 | | |
| 14 | Th | Old Lammas | Sir Walter Besant born 1836 | 4 44 | 19 24 | 226 | 139 | | |
| 15 | F | Sir Walter Scott b | 1771 U S troops in London 1917 | 4 46 | 19 22 | 227 | 138 | | |
| 16 | S | Naval engagement | German Bight 1917 | 4 47 | 19 20 | 228 | 137 | | |
| 17 | S | 9th Sunday after Trinity | | 4 49 | 19 18 | 229 | 136 | | |
| 18 | M | Gravelotte 1870 | Naval engagement Riga 1915 | 4 51 | 19 16 | 230 | 135 | | |
| 19 | Tu | Timothy Bright M.D. | inventor of shorthand d 1615 | 4 52 | 19 14 | 231 | 134 | | |
| 20 | W | Counsel allowed to prisoners | in felony 1836 | 4 54 | 19 12 | 232 | 133 | | |
| 21 | Th | Vimiera 1808 | Taku Forts 1860 Bapaume 1918 | 4 55 | 19 10 | 233 | 132 | | |
| 22 | F | Bosworth, 1485 | H G Bohn bookseller, died 1884 | 4 57 | 19 8 | 234 | 131 | | |
| 23 | S | Treaty of Prague 1866 | Mons 1914 | 4 59 | 19 6 | 235 | 130 | | |
| 24 | S | 10th Sunday after Trinity | St Bartholomew | 5 0 | 19 4 | 236 | 129 | | |
| 25 | M | Thomas Chatterton d | 1770 Michael Faraday d 1867 | 5 2 | 19 2 | 237 | 128 | | |
| 26 | Tu | Crecy, 1346 | Louvain sacked, 1914 Le Cateau, 1914 | 5 3 | 18 59 | 238 | 127 | | |
| 27 | W | Gen Botha died | 919 Peace Pact signed, 1928 | 5 5 | 18 57 | 239 | 126 | | |
| 28 | Th | Naval engagement | Heligoland Bight 1914 | 5 6 | 18 55 | 240 | 125 | | |
| 29 | F | Naval engagement | Heligoland Bight 1914 | 5 7 | 18 53 | 241 | 124 | | |
| 30 | S | 11th Sunday after Trinity | | 5 8 | 18 51 | 242 | 123 | | |
| 31 | M | 12th Sunday after Trinity | | 5 9 | 18 49 | 243 | 122 | | |

PHASES OF THE MOON

| | |
|-----------------|-------------------|
| ☾ First Quarter | 1d. 22h. 26m. 4s. |
| ☾ Full Moon | 9 10 57 6 |
| ☾ Last Quarter | 17 11 30 6 |
| ☾ New Moon | 24 3 36 9 |
| ☾ First Quarter | 30 23 56 7 |

See note on p. 18

MONTHLY NOTES

- 1st to 4th Lan mas—Scott sh Quarter Day
- 4th Bank and General Holiday
- 5th Oyster season opens
- 6th to 11th E Chan's 5th Cold Period
- 7th Grotto Day
- 12th Grouse shooting begins
- 12th to 15th Buchanan's 2nd Warm Period

drawn by G. H. Inch

[See Note, p. 4.]

THE MOON

| Date | Moon's Phase | Rise | Set | At Greenwich | | | | Height | Age | Configuration of Jupiter's satellites |
|----------|--------------|-------|------------|----------------|-------|---------|---------|--------|---------|---------------------------------------|
| | | | | Right Asc. | Decl. | Lat. | Long. | | | |
| 1 13 11 | 17 56 28 29 | 14 47 | 33 17 44 9 | 50 57 15 31 | 7 3 | 41 0 31 | 42 0 31 | 7 3 | 41 0 31 | 42 0 31 |
| 2 14 32 | 18 45 22 43 | 15 39 | 7 22 8 4 | 50 56 12 15 | 19 8 | 41 0 31 | 42 0 31 | 8 1 | 41 0 31 | 42 0 31 |
| 3 15 50 | 19 36 23 14 | 16 38 | 15 25 23 9 | 55 34 15 8 | 9 3 | 41 0 31 | 42 0 31 | 9 3 | 41 0 31 | 42 0 31 |
| 4 17 3 | 20 28 23 49 | 17 26 | 40 27 2 9 | 55 2 15 0 10 | 3 | 41 0 31 | 42 0 31 | 10 3 | 41 0 31 | 42 0 31 |
| 5 18 4 | 21 21 0 37 | 18 21 | 31 28 0 7 | 54 37 14 53 11 | 3 | 41 0 31 | 42 0 31 | 11 3 | 41 0 31 | 42 0 31 |
| 6 18 53 | 22 13 1 37 | 19 15 | 43 27 17 5 | 54 18 14 48 12 | 3 | 41 0 31 | 42 0 31 | 12 3 | 41 0 31 | 42 0 31 |
| 7 19 29 | 23 3 2 43 | 20 8 | 12 25 18 9 | 54 6 14 44 13 | 3 | 41 0 31 | 42 0 31 | 13 3 | 41 0 31 | 42 0 31 |
| 8 19 54 | 23 51 3 56 | 20 58 | 18 22 14 1 | 53 59 14 43 14 | 3 | 41 0 31 | 42 0 31 | 14 3 | 41 0 31 | 42 0 31 |
| 9 20 13 | 0 36 5 9 | 21 45 | 24 18 15 1 | 53 57 14 42 15 | 3 | 41 0 31 | 42 0 31 | 15 3 | 41 0 31 | 42 0 31 |
| 10 20 28 | 1 18 6 21 | 22 31 | 6 13 33 9 | 54 1 14 43 16 | 3 | 41 0 31 | 42 0 31 | 16 3 | 41 0 31 | 42 0 31 |
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| 14 21 11 | 4 0 11 6 | 1 23 | 30 8 28 7 | 55 19 15 42 0 | 3 | 41 0 31 | 42 0 31 | 20 3 | 41 0 31 | 42 0 31 |
| 15 21 23 | 4 43 12 22 | 2 9 | 16 13 35 3 | 55 57 15 45 21 | 3 | 41 0 31 | 42 0 31 | 21 3 | 41 0 31 | 42 0 31 |
| 16 21 39 | 5 31 13 43 | 3 58 | 15 18 54 9 | 56 41 15 47 22 | 3 | 41 0 31 | 42 0 31 | 22 3 | 41 0 31 | 42 0 31 |

CONJUNCTIONS, ECLIPSES, AND OTHER CELESTIAL PHENOMENA

August 2 Day breaks at 2h 29m (Civil twilight ends at 2h 43m) Night begins 22h 42m The length of the day is 5h 23m

Aug 4 Occultation by the γ of 43 Ophiuchi (May 54) See p. 50

Aug 6 2h Return in conjunction with δ 1 5 2

Aug 19 18h Mars in conjunction with δ 4 b

Aug 20 22h Jupiter in conjunction with δ 2 5 5

Aug 25 Mercury at Greatest Elongation 27° E.

Aug 25 23h Mercury in conjunction with δ 9 5 8

Aug 27 Neptune in conjunction with Sun.

Aug 27 9h Venus in conjunction with δ 9 2 2

APPARENT RIGHT ASCENSION AND DECLINATION OF THE PLANETS AT NOON

| MERCURY | | | | VENUS | | | | MARS | | | | JUPITER | | | | SATURN | | | |
|---------|----------|---------|----------|--------|---------|---------|---------|---------|----------|---------|---------|---------|----------|---------|---------|---------|----------|---------|--|
| R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | | |
| 4 | 10 52 17 | 12 12 6 | 11 38 3 | 2 55 0 | 4 52 22 | 22 15 2 | 6 37 7 | 23 1 9 | 18 27 14 | 22 40 1 | 6 41 35 | 22 58 7 | 18 26 9 | 22 41 4 | 6 45 57 | 22 54 0 | 18 25 12 | 22 42 7 | |
| 9 | 20 42 13 | 8 44 8 | 11 58 4 | 0 21 2 | 5 6 41 | 22 40 3 | 6 45 57 | 22 54 0 | 18 25 12 | 22 42 7 | 6 50 11 | 22 49 6 | 18 24 14 | 22 43 8 | 6 54 16 | 22 44 9 | 18 23 45 | 22 44 8 | |
| 14 | 11 6 55 | 5 20 5 | 12 10 47 | 2 9 0 | 5 20 55 | 23 0 6 | 6 50 11 | 22 49 6 | 18 24 14 | 22 43 8 | 6 54 16 | 22 44 9 | 18 23 45 | 22 44 8 | 6 58 12 | 22 40 5 | 18 22 16 | 22 45 8 | |
| 19 | 21 29 31 | 2 55 12 | 12 37 16 | 6 47 3 | 5 35 7 | 23 16 3 | 6 54 16 | 22 44 9 | 18 23 45 | 22 44 8 | 6 58 12 | 22 40 5 | 18 22 16 | 22 45 8 | 6 58 12 | 22 40 5 | 18 22 16 | 22 45 8 | |
| 24 | 21 48 51 | 0 57 0 | 12 56 33 | 7 9 7 | 5 49 1 | 23 27 0 | 6 58 12 | 22 40 5 | 18 22 16 | 22 45 8 | 6 58 12 | 22 40 5 | 18 22 16 | 22 45 8 | 6 58 12 | 22 40 5 | 18 22 16 | 22 45 8 | |
| 29 | 22 4 19 | 2 20 4 | 13 15 39 | 0 75 2 | 6 3 48 | 23 33 3 | 6 58 12 | 22 40 5 | 18 22 16 | 22 45 8 | 6 58 12 | 22 40 5 | 18 22 16 | 22 45 8 | 6 58 12 | 22 40 5 | 18 22 16 | 22 45 8 | |

THE SUN AND PLANETS

| HORIZONTAL PARALLAX | | | | | | | | | | ANGULAR SEMIDIAMETER | | | | | | | | | |
|---------------------|-------|------|-------|------|-------|-------|-------|------|-------|----------------------|-------|------|-------|-------|-------|------|-------|-------|-------|
| R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. | R.A. | Decl. |
| 5 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |
| 15 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |
| 25 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |
| 35 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |
| 45 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |
| 55 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |
| 65 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |
| 75 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |
| 85 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |
| 95 8 55 | 7 3 | 9 0 | 5 1 | 1 5 | 1 0 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 | 8 6 | 1 7 | 15 48 | 2 8 |

Aug 24 Uranus rises 20h 55m, sets 2h 15m

Time of High Water at the undermentioned Places—

| LONDON BRIDGE | | | | L. VERMIL | | | | BRISTOL | | | | HULL | | | | GREENOCK | | | | LEITH | | | | H. SCOTLAND | | | | | | |
|---------------|----|-------|----|-----------|----|-------|----|---------|----|-------|----|-------|----|-------|----|----------|----|-------|----|-------|----|-------|----|-------------|----|-------|----|----|----|--|
| Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | | | |
| 8 | 41 | 18 | 48 | 3 | 49 | 16 | 26 | 12 | 7 | 10 | 29 | 23 | 16 | 4 | 50 | 17 | 25 | 7 | 15 | 19 | 42 | 4 | 14 | 16 | 48 | 5 | 18 | 17 | 53 | |
| 7 | 34 | 19 | 40 | 4 | 45 | 17 | 24 | 0 | 24 | 12 | 54 | 11 | 25 | 5 | 45 | 18 | 7 | 8 | 12 | 20 | 39 | 5 | 18 | 17 | 53 | | | | | |
| 8 | 26 | 20 | 42 | 5 | 53 | 18 | 31 | 1 | 15 | 13 | 53 | 0 | 15 | 12 | 36 | 6 | 15 | 19 | 10 | 9 | 14 | 21 | 44 | 6 | 25 | 19 | 3 | | | |
| 9 | 30 | 22 | 0 | 7 | 8 | 19 | 40 | 2 | 21 | 15 | 2 | 1 | 24 | 13 | 15 | 7 | 31 | 20 | 32 | 10 | 25 | 22 | 56 | 7 | 40 | 20 | 15 | | | |
| 10 | 42 | 23 | 20 | 8 | 21 | 20 | 45 | 3 | 36 | 16 | 17 | 2 | 30 | 15 | 6 | 9 | 12 | 21 | 57 | 11 | 42 | | | 8 | 56 | 21 | 23 | | | |
| 11 | 49 | | | 9 | 22 | 21 | 39 | 4 | 50 | 17 | 23 | 3 | 27 | 16 | 5 | 10 | 26 | 22 | 50 | 0 | 6 | 12 | 48 | 10 | 1 | 22 | 8 | | | |
| 0 | 23 | 12 | 42 | 10 | 12 | 22 | 44 | 5 | 54 | 18 | 18 | 4 | 16 | 16 | 55 | 11 | 15 | 23 | 32 | 0 | 58 | 13 | 36 | 10 | 47 | 22 | 44 | | | |
| 1 | 14 | 13 | 27 | 10 | 54 | 23 | 4 | 6 | 41 | 19 | 3 | 5 | 0 | 17 | 39 | 12 | 57 | | | 1 | 45 | 14 | 20 | 11 | 25 | 23 | 16 | | | |
| 2 | 56 | 14 | 5 | 11 | 32 | 23 | 39 | 7 | 20 | 19 | 38 | 5 | 39 | 18 | 19 | 0 | 8 | 12 | 36 | 2 | 31 | 15 | 3 | 12 | 55 | 23 | 47 | | | |
| 2 | 34 | 14 | 39 | | | | | 7 | 55 | 20 | 12 | 6 | 15 | 18 | 55 | 0 | 43 | 13 | 7 | 3 | 5 | 15 | 34 | | | | | | | |
| 3 | 8 | 15 | 10 | 0 | 14 | 12 | 36 | 8 | 27 | 20 | 43 | 6 | 50 | 19 | 28 | 1 | 19 | 13 | 40 | 3 | 35 | 16 | 5 | 0 | 20 | 12 | 53 | | | |
| 3 | 41 | 15 | 39 | 0 | 44 | 13 | 6 | 8 | 50 | 22 | 12 | 7 | 22 | 19 | 58 | 1 | 51 | 14 | 14 | 4 | 10 | 16 | 30 | 0 | 53 | 13 | 20 | | | |
| 4 | 13 | 16 | 8 | 1 | 14 | 13 | 34 | 9 | 26 | 21 | 39 | 7 | 52 | 20 | 26 | 2 | 24 | 14 | 46 | 4 | 43 | 17 | 11 | 1 | 24 | 13 | 51 | | | |
| 4 | 43 | 16 | 37 | 1 | 43 | 14 | 5 | 9 | 55 | 22 | 6 | 8 | 22 | 20 | 55 | 2 | 59 | 15 | 16 | 5 | 18 | 17 | 11 | 1 | 58 | 14 | 22 | | | |
| 5 | 13 | 17 | 7 | 2 | 14 | 14 | 37 | 10 | 20 | 22 | 32 | 8 | 54 | 21 | 25 | 3 | 31 | 15 | 19 | 5 | 48 | 18 | 18 | 2 | 36 | 14 | 57 | | | |
| 5 | 45 | 17 | 43 | 2 | 50 | 15 | 15 | 10 | 49 | 23 | 5 | 9 | 30 | 22 | 4 | 4 | 4 | 16 | 24 | 6 | 27 | 18 | 56 | 3 | 14 | 15 | 39 | | | |
| 6 | 24 | 18 | 32 | 3 | 34 | 16 | 1 | 11 | 25 | 23 | 46 | 10 | 16 | 22 | 52 | 4 | 36 | 16 | 54 | 7 | 12 | 19 | 40 | 4 | 0 | 16 | 34 | | | |
| 7 | 13 | 19 | 31 | 4 | 20 | 17 | 6 | | | 22 | 17 | 12 | 17 | 23 | 57 | 5 | 15 | 17 | 41 | 8 | 6 | 20 | 42 | 5 | 3 | 17 | 39 | | | |
| 8 | 16 | 20 | 46 | 5 | 45 | 18 | 19 | 0 | 53 | 23 | 38 | 12 | 38 | | | 6 | 18 | 18 | 54 | 9 | 14 | 21 | 59 | 6 | 11 | 18 | 56 | | | |
| 9 | 35 | 22 | 21 | 7 | 15 | 19 | 55 | 2 | 27 | 15 | 22 | 1 | 22 | 14 | 10 | 7 | 59 | 20 | 25 | 10 | 44 | 23 | 16 | 7 | 38 | 20 | 16 | | | |
| 11 | 7 | 23 | 48 | 8 | 35 | 21 | 5 | 4 | 4 | 16 | 40 | 2 | 44 | 15 | 29 | 9 | 43 | 21 | 59 | 11 | 59 | | | 8 | 56 | 21 | 16 | | | |
| | | | | 9 | 40 | 22 | 2 | 5 | 22 | 17 | 51 | 3 | 50 | 16 | 30 | 10 | 57 | 22 | 55 | 0 | 13 | 13 | 0 | 9 | 53 | 22 | 8 | | | |
| 0 | 53 | 13 | 15 | 10 | 34 | 22 | 51 | 6 | 24 | 18 | 48 | 4 | 45 | 17 | 24 | 12 | 49 | 23 | 51 | 1 | 18 | 13 | 53 | 10 | 41 | 22 | 54 | | | |
| 1 | 44 | 14 | 1 | 11 | 20 | 23 | 37 | 7 | 17 | 19 | 37 | 5 | 34 | 18 | 13 | | | 12 | 43 | 2 | 9 | 14 | 42 | 11 | 27 | 23 | 37 | | | |
| 2 | 29 | 14 | 46 | | | | | 8 | 3 | 20 | 22 | 6 | 20 | 18 | 59 | 0 | 39 | 13 | 43 | 2 | 58 | 15 | 29 | | | | | | | |
| 3 | 13 | 15 | 26 | 0 | 22 | 19 | 49 | 8 | 47 | 21 | 5 | 7 | 5 | 19 | 43 | 1 | 24 | 14 | 11 | 3 | 46 | 16 | 14 | 0 | 21 | 12 | 50 | | | |
| 4 | 57 | 16 | 9 | 1 | 4 | 23 | 31 | 9 | 28 | 21 | 46 | 7 | 48 | 20 | 25 | 2 | 12 | 14 | 55 | 4 | 32 | 16 | 59 | 1 | 5 | 13 | 35 | | | |
| 5 | 41 | 16 | 51 | 2 | 46 | 24 | 14 | 10 | 10 | 22 | 25 | 8 | 30 | 21 | 5 | 3 | 56 | 15 | 35 | 5 | 20 | 17 | 43 | 1 | 50 | 14 | 21 | | | |
| 6 | 22 | 17 | 31 | 2 | 29 | 14 | 58 | 10 | 48 | 23 | 1 | 9 | 12 | 21 | 45 | 3 | 35 | 16 | 8 | 6 | 4 | 18 | 27 | 2 | 44 | 15 | 11 | | | |
| 7 | 6 | 3 | 18 | 3 | 14 | 15 | 44 | 11 | 25 | 23 | 38 | 9 | 56 | 22 | 30 | 4 | 12 | 16 | 43 | 6 | 51 | 19 | 23 | 3 | 38 | 16 | 9 | | | |
| 8 | 46 | 19 | 1 | 4 | 7 | 16 | 39 | | | 22 | 3 | 10 | 50 | 23 | 30 | 4 | 49 | 17 | 20 | 7 | 46 | 20 | 13 | 4 | 44 | 17 | 18 | | | |

RISING, SETTING and SETTING
OF PLANETS. (NOON = 12H)

MORNING AND EVENING STARS

NATURE of the ...

| Day of M | Rises | | Souths | | | Nets | | | H of Acc rition | | |
|----------|-------|----|--------|----|----|------|----|----|-----------------|--|--|
| | I | V | H | M | N | 3 | I | M | N | | |
| 1 | 16 | 0 | 2 | | | | | | | | |
| 2 | 16 | 53 | 2 | | | | | | | | |
| 3 | 17 | 32 | | | | | | | | | |
| 4 | 18 | 0 | 2 | | | | | | | | |
| 5 | 18 | 20 | 2 | | | | | | | | |
| 6 | 18 | 35 | 2 | | | | | | | | |
| 7 | 18 | 48 | 2 | | | | | | | | |
| 8 | 18 | 58 | | | | | | | | | |
| 9 | 19 | 5 | | | | | | | | | |
| 10 | 19 | 20 | | | | | | | | | |
| 11 | 19 | 31 | | | | | | | | | |
| 12 | 19 | 45 | | | | | | | | | |
| 13 | 20 | 3 | | | | | | | | | |
| 14 | 20 | 29 | 5 | 11 | 13 | 10 | 4 | 34 | 43 | | |
| 15 | 21 | 7 | 6 | 10 | 15 | 20 | 5 | 32 | 41 | | |
| 16 | 22 | 2 | 7 | 12 | 16 | 14 | 6 | 34 | 58 | | |
| 17 | 23 | 17 | 8 | 14 | 16 | 53 | 7 | 38 | 36 | | |
| 18 | | | | | | | 8 | 41 | 16 | | |
| 19 | 0 | 46 | 9 | 15 | 17 | 21 | 9 | 41 | 21 | | |
| 20 | 2 | 19 | 10 | 12 | 17 | 41 | 10 | 38 | 37 | | |
| 21 | 3 | 53 | 11 | 6 | 17 | 56 | 11 | 33 | | | |
| 22 | 5 | 25 | 11 | 57 | 18 | 10 | 12 | 25 | 4 | | |
| 23 | 6 | 54 | 12 | 47 | 18 | 23 | 13 | 17 | 5 | | |
| 24 | 8 | 22 | 13 | 37 | 18 | 37 | 14 | 10 | 1 | | |
| 25 | 9 | 49 | 14 | 28 | 18 | 54 | 15 | 3 | 4 | | |
| 26 | 11 | 15 | 15 | 20 | 19 | 15 | 15 | 58 | 3 | | |
| 27 | 12 | 37 | 16 | 14 | 10 | 44 | 16 | 54 | 3 | | |
| 28 | 13 | 52 | 17 | 8 | 20 | 23 | 17 | 51 | | | |
| 29 | 14 | 49 | 18 | 2 | 21 | 26 | 18 | 45 | 4 | | |
| 30 | 15 | 31 | 18 | 54 | 22 | 20 | 19 | 40 | 4 | | |

Sept 3 morn Eclipse of Jupit
III See p. 58
Sept. 12. Venus at Great
Elongation. 46° E
Sept 17 7h Mars in conjunc
tion with ♄ 8 5^h 8
Sept 17 14h Jupiter in conjunc
tion with ♄ 2 5^h 8
Sept 21 Mercury at Infer
conjunction
Sept. 23 6h Mercury in con
junction with ♄ 9 6^h 4
Sept 23 19h Sun enters the
sign Libra (Autumnal Equinox)
Sept 25 20h Venus in conjunc
tion with ♄ 9 1^h 8
Sept 27 17 Mars and Jupit
8 7 N
Saturn in c
h 6^h 8
h the Morning
the Afternoon

Constellations near the 9 me
dian at 22h 13m 13s
Aquila Delphinus Aquarius
Pisces Eridanus Pegasus Praesepe

APPARENT RIGHT ASCENSION AND DECLINATION OF THE PLANETS AT NOON

[illegible]

Monitors

| | | | | | | | | |
|----|---|----|---|---|----|----|----|---|
| 10 | 1 | 54 | 5 | 4 | 10 | 39 | 10 | 4 |
| 20 | 0 | 52 | 8 | 4 | 54 | 10 | 25 | 3 |

11 16 1 rans read 18/ 45
7/ 40 1 Sept the r m 3/ 42

Time of High Water at the undermentioned Places—

| WATER DOG | | T. STATION | | F. R. M. | | H. M. N. G. H. A. M. | | G. R. F. F. O. U. R. | | L. E. T. T. | | H. G. T. | |
|-----------|-------|------------|-------|----------|-------|----------------------|-------|----------------------|-------|-------------|-------|----------|-------|
| Morn | After | Morn | After | Morn | After | Morn | After | Morn | After | Morn | After | Morn | After |
| M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 35 | 20 0 | 5 11 | 17 49 | 0 23 | 12 56 | 11 58 | 1 | 5 38 | 18 19 | 8 51 | 21 26 | 6 4 | 18 15 |
| 35 | 21 19 | 6 30 | 19 11 | 1 27 | 14 12 | | | | | | | | |
| 35 | 22 56 | 8 4 | 20 24 | 2 58 | 15 48 | | | | | | | | |
| 23 | | 9 9 | 21 21 | 4 29 | 17 6 | | | | | | | | |
| 10 | 12 25 | 9 58 | 22 5 | 5 36 | 18 1 | | | | | | | | |
| 0 | 13 10 | 10 35 | 22 42 | 6 23 | 18 43 | | | | | | | | |
| 39 | 13 45 | 11 8 | 23 16 | 7 1 | 19 17 | 5 16 | 17 54 | | 12 12 | 2 10 | 14 49 | 11 29 | 23 22 |
| 10 | 14 15 | 11 39 | 23 46 | 7 19 | 19 45 | 5 52 | 18 27 | 0 20 | 12 42 | 2 45 | 15 22 | 11 56 | 23 50 |
| 41 | 14 45 | | 23 8 | 7 58 | 20 14 | 6 25 | 18 57 | 0 53 | 13 8 | 3 20 | 15 48 | | 22 19 |
| 13 | 15 14 | 0 15 | 23 36 | 8 19 | 20 43 | 6 55 | 19 25 | 1 27 | 13 43 | 3 49 | 16 19 | 0 19 | 22 45 |
| 44 | 15 44 | 0 44 | 23 4 | 8 50 | 21 10 | 7 24 | 19 51 | 1 55 | 14 13 | 4 24 | 16 50 | 0 49 | 23 17 |
| 13 | 16 11 | 1 14 | 23 32 | 9 22 | 21 34 | 7 54 | 20 18 | 2 31 | 14 47 | 4 58 | 17 22 | 1 21 | 23 42 |
| 39 | 16 40 | 1 44 | 23 3 | 9 48 | 22 1 | 8 25 | 20 48 | 3 59 | 15 16 | 5 33 | 17 53 | 1 59 | 24 17 |
| 8 | 17 13 | 2 19 | 24 40 | 10 16 | 22 32 | 9 4 | 21 15 | 3 30 | 15 46 | 6 11 | 18 38 | 2 38 | 25 2 |
| 40 | 18 0 | 3 3 | 25 27 | 10 51 | 23 14 | 9 49 | 22 12 | 4 7 | 16 22 | 7 0 | 19 26 | 3 21 | 26 3 |
| 30 | 19 4 | 4 0 | 26 13 | 11 42 | | 10 50 | 23 20 | 4 54 | 17 10 | 7 58 | 20 38 | 4 40 | 27 19 |
| 38 | 20 28 | 5 23 | 26 6 | 0 23 | 23 8 | | | 6 6 | 18 32 | 9 16 | 21 56 | 6 5 | 28 41 |
| 14 | 22 10 | 7 6 | 27 12 | 2 16 | 25 2 | 0 54 | 24 6 | 8 9 | 20 14 | 10 40 | 23 12 | 7 33 | 29 2 |
| 47 | 23 39 | 8 27 | 28 52 | 4 1 | 26 34 | 1 30 | 25 24 | 9 52 | 21 39 | 12 37 | | 8 49 | 29 6 |
| | 24 5 | 9 28 | 29 48 | 5 12 | 27 38 | 3 37 | 26 20 | 10 42 | 22 40 | 0 21 | 23 1 | 9 39 | 29 54 |
| 40 | 22 58 | 10 16 | 22 32 | 6 9 | 28 20 | 4 30 | 27 10 | 11 41 | 23 33 | 1 17 | 23 55 | 10 20 | 22 34 |
| 27 | 23 42 | 10 59 | 23 16 | 6 58 | 9 15 | 5 18 | 27 54 | | 23 26 | 2 4 | 24 36 | 10 59 | 23 23 |
| 9 | 24 23 | 11 42 | 23 57 | 7 40 | 19 58 | 6 1 | 28 36 | 0 19 | 23 2 | 3 47 | 25 18 | 11 40 | |
| 50 | 25 4 | | 23 22 | 8 21 | 20 37 | 6 44 | 29 15 | 1 4 | 23 43 | 3 31 | 26 2 | 0 1 | 22 23 |
| 33 | 25 46 | 0 38 | 23 2 | 8 59 | 21 15 | 7 25 | 29 54 | 1 42 | 24 27 | 4 16 | 26 43 | 0 43 | 23 3 |
| 43 | 26 25 | 1 17 | 23 41 | 9 36 | 21 51 | 8 5 | 30 30 | 2 21 | 25 3 | 5 2 | 27 27 | 1 26 | 23 46 |
| 50 | 27 2 | 1 58 | 24 21 | 10 10 | 22 24 | 8 45 | 31 6 | 3 58 | 25 36 | 5 49 | 28 11 | 2 13 | 24 35 |
| 525 | 27 41 | 2 39 | 25 4 | 10 42 | 22 57 | 9 28 | 31 45 | 3 36 | 26 8 | 6 40 | 29 1 | 3 8 | 25 35 |
| 6 2 | 28 25 | 3 29 | 25 54 | 11 19 | 23 37 | 10 18 | 32 30 | 4 21 | 26 48 | 7 39 | 30 2 | 4 15 | 26 44 |
| 6 46 | 29 24 | 4 31 | 27 2 | 12 5 | | 11 24 | 33 34 | 5 15 | 27 42 | 8 44 | 31 9 | 5 39 | 28 4 |

RISING, SETTING, and SATTING
OF PLANETS (NORTH—24h)

| MERCURY ♿ | | VENUS ♀ | |
|-----------|-------|---------|-------|
| Time | Set | Time | Set |
| 7 43 | 23 25 | 18 45 | 9 54 |
| 7 8 | 22 41 | 18 14 | 10 9 |
| 6 1 | 21 51 | 17 43 | 10 23 |
| 4 53 | 21 6 | 17 19 | 10 35 |

MORNING AND EVENING STARS.

☿ MERCURY rises before the Sun after the equinox. It is not likely to be visible till the 11th.

♀ VENUS is growing brighter but is less than 20 degrees above the horizon at sunset during the 11th and will not be prominent. Sets W S W to S W and Magitude 3.9 to -4.2

♂ MARS will be seen on

MARS ♂ JUPITER ♃

| Time | Set | Time | Set |
|-------|------|-------|-------|
| 13 5 | 7 23 | 15 40 | 23 50 |
| 12 57 | 7 13 | 15 29 | 23 28 |
| 12 49 | 7 4 | 15 18 | 23 5 |
| 12 46 | 6 53 | 15 5 | 22 42 |

♂ MARS is at a low altitude in the S S W in the evening. Magitude 4.0 to 6

[See Note p 4]

THE MOON

Conjunction

Conjunction

At Greenwich Midnight

| Day of M. | Rises | Souths | Sets | Right Ascension | Declination | Horizontal Parallax | Semidiameter | Age |
|-----------|-------|--------|----------|-----------------|-------------|---------------------|--------------|--------|
| h m | h m | h m | h m | h m | h m | h m | h m | h m |
| 1 26 5 | 19 44 | 23 31 | 20 31 18 | 24 11 35 | 54 14 | 14 47 | 9 12 | 30 214 |
| 2 16 27 | 20 31 | 0 41 | 11 21 6 | 20 36 2 | 54 6 | 14 45 | 10 12 | 21 024 |
| 3 16 44 | 21 15 | 1 57 | 22 7 25 | 16 12 4 | 54 7 | 14 45 | 11 12 | 0 2134 |
| 4 16 57 | 21 57 | 3 9 | 22 51 49 | 11 11 1 | 54 16 | 14 47 | 12 12 | 1 0423 |
| 5 17 7 | 22 37 | 4 21 | 23 35 | 6 53 03 | 54 31 | 14 51 | 13 12 | 24 011 |
| 6 17 18 | | | | | | | | |
| 7 17 28 | | | | | | | | |
| 8 17 36 | | | | | | | | |
| 9 17 5 | | | | | | | | |
| 10 18 4 | | | | | | | | |
| 11 18 3 | | | | | | | | |
| 12 19 6 | 4 41 | 11 | 5 18 9 | 27 33 1 | 57 39 | 15 43 | 20 12 | 42 013 |
| 13 19 55 | 5 5 | 14 | 6 19 21 | 28 22 0 | 58 11 | 15 51 | 21 12 | 23 01 |
| 14 21 1 | 6 5 | 14 | 7 21 35 | 27 25 3 | 58 43 | 16 0 | 22 12 | 3 024 |
| 15 22 23 | 7 4 | 15 | 8 22 55 | 24 46 5 | 59 13 | 16 8 | 23 12 | 3 0124 |
| 16 23 53 | 8 1 | 15 | 9 23 57 | 20 33 2 | 59 40 | 16 15 | 24 12 | 3 04 |
| 17 | | | 10 18 11 | 15 4 5 | 59 59 | 16 21 | 25 12 | 3 0234 |
| 18 1 24 | 8 54 | 16 | 11 11 55 | 8 42 8 | 60 9 | 16 23 | 26 12 | 1 0234 |
| 19 2 53 | 9 45 | 16 | 12 3 59 | 1 52 30 | 60 16 | 23 27 | 12 | 2 0134 |
| 20 4 22 | 10 34 | 16 | 12 55 28 | 5 2 45 | 59 51 | 16 18 | 28 12 | 21 04 |
| 21 5 49 | 11 23 | 16 | 13 47 25 | 11 37 2 | 59 22 | 16 11 | 0 2 | 3 0124 |
| 22 7 16 | 12 14 | 16 | 14 40 23 | 17 29 4 | 58 44 | 16 0 | 1 2 | 34 02 |
| 23 8 44 | 13 6 | 17 | 15 35 46 | 23 16 7 | 57 58 | 15 48 | 2 | 42 01 |
| 24 10 10 | 14 0 | 17 | 16 32 30 | 25 49 1 | 57 9 | 15 34 | 3 | 42 01 |
| 25 11 30 | 14 55 | 18 | 17 30 9 | 27 50 5 | | | | |
| 26 12 37 | 15 51 | 19 | 18 27 27 | 28 20 3 | | | | |
| 27 13 29 | 16 45 | 20 | 19 23 3 | 27 23 2 | | | | |
| 28 14 0 | 17 37 | 21 | 20 16 1 | 25 9 2 | | | | |
| 29 14 31 | 18 25 | 22 | 21 5 57 | 21 50 7 | | | | |
| 30 14 50 | 19 10 | 23 | 21 53 4 | 17 40 5 | | | | |
| 31 15 4 | 19 53 | 0 53 | 22 37 54 | 12 50 25 | | | | |

Oct 7 Uranus in Opposition
Least distance from Earth
1 766 370 000 miles

Oct 7 Mercury at greatest
elongation 18 W

Oct 7 19h Partial Eclipse of the
Moon Visible at Greenwich

Jupiter in conjunction
15° 8

Mars in conjunction
4° 8

Oct 10 Venus at greatest brill
lucency

Oct 21 2h Mercury in con
junction with J Q 1° N

Oct 21 22h Total Eclipse of the
Moon Visible at Greenwich

Oct 24 15h Venus in conjunc
tion with J Q 2° S

Oct 24 15h Venus in conjunc
tion with J Q 2° S

Oct 24 15h Venus in conjunc
tion with J Q 2° S

Oct 24 15h Venus in conjunc
tion with J Q 2° S

Oct 24 15h Venus in conjunc
tion with J Q 2° S

Oct 24 15h Venus in conjunc
tion with J Q 2° S

Oct 24 15h Venus in conjunc
tion with J Q 2° S

Oct 24 15h Venus in conjunc
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Oct 24 15h Venus in conjunc
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Oct 24 15h Venus in conjunc
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Oct 24 15h Venus in conjunc
tion with J Q 2° S

Oct 24 15h Venus in conjunc
tion with J Q 2° S

Oct 24 15h Venus in conjunc
tion with J Q 2° S

APPARENT RIGHT ASCENSION AND DECLINATION OF THE PLANETS AT NOON

| I | ☿ MERCURY | | ♀ VENUS | | ♂ MARS | | ♃ JUPITER | | ♄ SATURN | |
|----|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| | R.A. | Dec. & A. | R.A. | Dec. & A. | R.A. | Dec. & A. | R.A. | Dec. & A. | R.A. | Dec. & A. |
| 3 | 11 34 5 | 3 32 7 | 15 21 8 | 23 19 3 | 7 32 20 | 22 32 7 | 7 20 11 | 22 7 2 | 18 24 47 | 22 49 5 |
| 8 | 11 50 13 | 2 48 3 | 15 35 16 | 24 35 8 | 7 43 48 | 22 12 9 | 7 22 21 | 22 3 5 | 18 25 41 | 22 49 6 |
| 23 | 12 15 16 | 0 29 7 | 15 49 50 | 25 38 9 | 7 54 51 | 21 51 4 | 7 24 14 | 22 0 3 | 18 26 46 | 22 49 6 |
| 18 | 12 44 31 | 2 1 3 | 16 1 23 | 26 27 7 | 8 5 26 | 21 28 8 | 7 25 48 | 21 57 7 | 18 28 0 | 22 49 3 |
| 23 | 13 15 13 | 0 12 0 | 16 10 21 | 27 0 9 | 8 15 36 | 21 5 5 | 7 27 3 | 21 55 7 | 18 29 22 | 22 49 0 |
| 28 | 13 46 16 | 0 27 1 | 16 16 7 | 27 16 4 | 8 25 12 | 20 42 1 | 7 27 58 | 21 54 4 | 18 30 54 | 22 48 5 |

THE SUN AND PLANETS

| HORIZONTAL PARALLAX. | | | | | | | | | | ANGULAR SEMIDIAMETER. | | | | | | | | | | NEPTUNE. | | | | | | | | | |
|--|-------|---|------|---|-----|----|---|---|----|-----------------------|--------|---|---|------|---|---|---|----|----|---------------------------|----|----|---|----|----|---|----|----|---|
| O P Q R S T U | | | | | | | | | | O P Q R S T U | | | | | | | | | | R A D. C. A. R A D. C. A. | | | | | | | | | |
| 1 | 58 20 | 9 | 7 17 | 4 | 6 5 | 17 | 0 | 9 | 16 | 1 | 3 7 15 | 6 | 3 | 4 17 | 7 | 7 | 4 | 10 | 27 | 8 | 10 | 27 | 8 | 10 | 27 | 8 | 10 | 27 | 8 |
| 13 | 58 20 | 7 | 5 20 | 3 | 6 8 | 12 | 0 | 9 | 16 | 4 | 2 8 19 | 4 | 3 | 6 18 | 2 | 7 | 3 | 10 | 28 | 8 | 10 | 28 | 8 | 10 | 28 | 8 | 10 | 28 | 8 |
| 25 | 58 20 | 6 | 5 13 | 9 | 7 3 | 18 | 0 | 8 | 16 | 7 | 2 5 28 | 8 | 3 | 9 18 | 8 | 7 | 2 | 10 | 28 | 8 | 10 | 28 | 8 | 10 | 28 | 8 | 10 | 28 | 8 |
| Oct. 15 Sun at meridian in Transit 1m 4 95m of Mean Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oct 16 | | | | | | | | | | Uranus rises 16h 45m | | | | | | | | | | Neptune rises 1h 56m | | | | | | | | | |
| 5h 35m | | | | | | | | | | at 1st 1st 1st | | | | | | | | | | at 1st 1st 1st | | | | | | | | | |

Oct 16 Uranus rises 16h 45m set
5h 35m Neptune rises 1h 56m
set 12h 48m

The Evolution of Planetary Systems — continued

Time of High Water at the undermentioned Places—

| LONDON BRIDGE | | LIVERPOOL | | BRISTOL | | HULL (Train in basin) | | GREENOCK | | LEITH | | LONDON G.C.T. | |
|---------------|-------|-----------|-------|---------|-------|--------------------------|-------|----------|-------|-------|-------|------------------|-------|
| Morn | After | Morn | After | Morn | After | Morn | After | Morn | After | Morn | After | Morn | After |
| H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. |
| 7 44 | 20 40 | 6 1 | 18 30 | 4 35 | 13 22 | 12 59 | 12 59 | 6 58 | 19 20 | 10 6 | 22 27 | 6 59 | 19 26 |
| 9 2 | 22 23 | 7 35 | 19 51 | 2 14 | 15 14 | 1 5 | 14 27 | 8 58 | 21 7 | 11 20 | 23 39 | 8 18 | 20 36 |
| 10 42 | 23 46 | 8 40 | 20 50 | 4 1 | 16 39 | 2 28 | 15 28 | 10 5 | 22 11 | 12 27 | 24 27 | 9 16 | 21 21 |
| 11 59 | | 9 25 | 21 35 | 5 9 | 17 34 | 3 26 | 16 14 | 10 46 | 22 50 | 0 36 | 13 15 | 9 55 | 21 55 |
| 0 39 | 12 46 | 10 3 | 22 10 | 5 55 | 18 14 | 4 11 | 16 50 | 11 18 | 23 21 | 1 18 | 13 53 | 10 26 | 22 21 |
| 1 14 | 13 17 | 10 34 | 22 44 | 6 30 | 18 46 | 4 49 | 17 24 | 11 48 | 23 49 | 1 53 | 14 27 | 10 53 | 22 48 |
| 2 41 | 13 45 | 11 6 | 23 13 | 6 59 | 19 13 | 5 24 | 17 55 | | 12 15 | 2 26 | 14 57 | 11 15 | 23 14 |
| 2 10 | 14 15 | 11 37 | 23 43 | 7 26 | 19 43 | 5 55 | 18 25 | 0 23 | 12 41 | 2 58 | 15 27 | 11 41 | 23 42 |
| 2 42 | 14 46 | | 24 3 | 7 56 | 20 12 | 6 26 | 18 52 | 0 56 | 13 11 | 3 28 | 15 58 | | 24 8 |
| 3 13 | 15 19 | 0 23 | 13 34 | 8 25 | 20 40 | 6 58 | 19 20 | 1 26 | 13 45 | 4 2 | 16 29 | 0 16 | 22 40 |
| 3 45 | 15 50 | 0 45 | 13 4 | 8 53 | 21 9 | 7 30 | 19 49 | 1 56 | 14 15 | 4 40 | 17 4 | 0 54 | 23 12 |
| 4 14 | 16 23 | 1 20 | 13 38 | 9 23 | 21 39 | 8 5 | 20 21 | 2 24 | 14 48 | 5 17 | 17 43 | 1 33 | 23 51 |
| 4 41 | 17 0 | 1 59 | 14 19 | 9 54 | 22 12 | 8 46 | 21 0 | 3 10 | 15 22 | 6 2 | 18 27 | 2 21 | 24 41 |
| 5 17 | 17 50 | 2 46 | 15 8 | 10 25 | 22 6 | 9 36 | 21 50 | 3 55 | 16 7 | 6 53 | 19 14 | 3 25 | 25 48 |
| 6 8 | 18 59 | 3 49 | 16 17 | 11 23 | | 10 45 | 23 0 | 4 51 | 17 0 | 7 56 | 20 29 | 4 37 | 27 8 |
| 7 20 | 20 24 | 5 18 | 17 51 | 0 24 | 23 7 | | 24 22 | 6 45 | 18 26 | 9 11 | 21 53 | 6 9 | 28 33 |
| 8 49 | 22 2 | 6 55 | 19 23 | 2 17 | 24 58 | 0 37 | 24 8 | 8 27 | 20 5 | 10 37 | 23 20 | 7 32 | 29 51 |
| 10 31 | 23 24 | 8 10 | 20 30 | | | | | | | | | | |
| 11 44 | | 9 5 | 21 23 | | | | | | | | | | |
| 0 20 | 12 35 | 9 53 | 22 8 | | | | | | | | | | |
| 1 4 | 13 17 | 10 34 | 22 52 | | | | | | | | | | |
| 1 43 | 13 57 | 11 16 | 23 32 | | | | | | | | | | |
| 2 24 | 14 39 | 12 55 | | | | | | | | | | | |
| 3 5 | 15 22 | 0 12 | 22 32 | | | | | | | | | | |
| 3 44 | 16 1 | 0 51 | 23 11 | | | | | | | | | | |
| 4 19 | 16 37 | 1 30 | 23 49 | | | | | | | | | | |
| 4 50 | 17 13 | 2 11 | 24 30 | | | | | | | | | | |
| 5 23 | 17 56 | 2 56 | 25 16 | | | | | | | | | | |
| 6 4 | 18 53 | 3 55 | 26 18 | | | | | | | | | | |
| 7 2 | 20 8 | 5 15 | 27 39 | | | | | | | | | | |
| 8 17 | 21 37 | 6 45 | 29 1 | | | | | | | | | | |

RISING, SETTING and SETTING
of the PLANETS (NORTH = 12h)

MERCURY ☿

VENUS ♀

| Rises | Setts | Setts | Rises | Setts | Setts |
|-------|-------|-------|-------|-------|-------|
| h m | h m | h m | h m | h m | h m |

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

MORNING AND EVENING STARS

♂ MARS being at western elongation is a morning star during October, and may be seen to advantage a few degrees above the horizon nearly due east at 2 o'clock of the first of the month.

1930.]

OCTOBER TENTH MONTH.

Time of High Water at the undermentioned Places—

| LONDON DOCK | | LIVERPOOL | | DUBLIN | | HULL (Immingham) | | GREENOCK | | LEITH | | GLASGOW | |
|-------------|-------|-----------|-------|--------|-------|------------------|-------|----------|-------|-------|-------|---------|-------|
| Morn | After | Morn | After | Morn | After | Morn | After | Morn | After | Morn | After | Morn | After |
| 7 44 | 20 40 | 6 5 | 18 30 | 0 36 | 13 22 | 12 59 | 6 58 | 19 20 | 10 0 | 22 27 | 6 2 | 25 2 | |
| 9 2 | 22 23 | 7 25 | 19 51 | 2 14 | 15 14 | | | | | | | | |
| 10 42 | 23 46 | 8 40 | 20 50 | 4 1 | 16 39 | | | | | | | | |
| 12 59 | | 9 25 | 21 35 | 5 9 | 17 34 | | | | | | | | |
| 0 39 | 12 46 | 10 3 | 22 10 | 5 55 | 18 14 | | | | | | | | |
| 1 14 | 13 17 | 10 36 | 22 44 | 6 30 | 18 46 | | | | | | | | |
| 1 42 | 13 45 | 11 6 | 23 13 | 6 59 | 19 13 | | | | | | | | |
| 2 10 | 14 15 | 11 37 | 23 43 | 7 26 | 19 43 | 5 55 | 10 45 | 0 43 | 14 41 | 2 50 | 15 47 | 22 2 | 25 2 |
| 2 42 | 14 46 | | 24 3 | 7 56 | 20 12 | 6 26 | 18 52 | 0 56 | 15 11 | 3 28 | 15 55 | 22 2 | 25 2 |
| 3 13 | 15 19 | 0 23 | 24 34 | 8 25 | 20 40 | 6 58 | 19 20 | 1 26 | 15 45 | 4 2 | 16 20 | 22 2 | 25 2 |
| 3 45 | 15 50 | 0 45 | 25 4 | 8 55 | 21 9 | 7 30 | 19 49 | 1 56 | 16 15 | 4 40 | 17 4 | 22 2 | 25 2 |
| 4 14 | 16 23 | 1 20 | 25 38 | 9 23 | 21 39 | 8 5 | 20 21 | 2 34 | 16 48 | 5 12 | 17 43 | 22 2 | 25 2 |
| 4 41 | 17 0 | 1 59 | 26 19 | 9 54 | 22 17 | 8 46 | 21 0 | 3 10 | 17 22 | 6 2 | 18 17 | 22 2 | 25 2 |
| 5 17 | 17 50 | 2 46 | 26 15 | 10 35 | 23 6 | 9 36 | 21 50 | 3 55 | 18 0 | 6 53 | 19 14 | 22 2 | 25 2 |
| 6 8 | 18 50 | 3 49 | 26 17 | 11 33 | | 10 45 | 23 0 | 4 51 | 18 0 | 7 50 | 20 25 | 22 2 | 25 2 |
| 7 20 | 20 24 | 5 18 | 27 51 | 0 24 | 23 7 | | 12 22 | 6 45 | 18 26 | 9 11 | 21 53 | 22 2 | 25 2 |
| 8 49 | 21 2 | 6 55 | 29 23 | 1 17 | 24 58 | 0 37 | 24 2 | 8 27 | 20 5 | 10 37 | 23 10 | 22 2 | 25 2 |
| 10 31 | 23 24 | 8 10 | 30 30 | 3 51 | 26 20 | 2 14 | 25 11 | 9 47 | 21 26 | 11 55 | | 22 2 | 25 2 |
| 11 44 | | 9 5 | 21 23 | 4 55 | 27 27 | 3 20 | 26 4 | 10 37 | 22 26 | 0 17 | 22 42 | 22 2 | 25 2 |
| 0 20 | 12 35 | 9 53 | 22 8 | 5 46 | 28 6 | 4 10 | 26 49 | 11 23 | 23 9 | 1 6 | 23 24 | 22 2 | 25 2 |
| 1 4 | 13 17 | 10 34 | 22 52 | 6 31 | 28 50 | 4 55 | 27 30 | 12 1 | 23 57 | 1 46 | 24 20 | 22 2 | 25 2 |
| 1 43 | 13 57 | 11 16 | 23 32 | 7 23 | 29 29 | 5 29 | 28 10 | | 24 22 | 2 30 | 24 58 | 22 2 | 25 2 |
| 2 24 | 14 39 | 11 55 | | 7 57 | 30 9 | 6 20 | 28 46 | 0 36 | 25 14 | 3 6 | 25 29 | 22 2 | 25 2 |
| 3 5 | 15 22 | 0 12 | 22 32 | 8 29 | 30 45 | 7 0 | 29 22 | 1 14 | 25 54 | 3 51 | 26 12 | 22 2 | 25 2 |
| 3 44 | 16 1 | 0 51 | 23 11 | 9 4 | 21 19 | 7 40 | 29 56 | 1 53 | 26 26 | 4 37 | 26 57 | 22 2 | 25 2 |
| 4 19 | 16 37 | 1 30 | 23 49 | 9 37 | 21 52 | 8 21 | 30 20 | 2 37 | 25 3 | 5 22 | 27 42 | 22 2 | 25 2 |
| 4 50 | 17 13 | 2 11 | 24 30 | 10 8 | 22 25 | 9 4 | 21 8 | 3 16 | 25 37 | 6 8 | 28 27 | 22 2 | 25 2 |
| 5 23 | 17 56 | 2 56 | 25 16 | 10 42 | 23 2 | 9 52 | 21 50 | 4 3 | 26 20 | 7 6 | 29 2 | 22 2 | 25 2 |
| 6 4 | 18 53 | 3 55 | 26 18 | 11 28 | 23 59 | 10 55 | 22 45 | 4 52 | 27 7 | 8 12 | 30 25 | 22 2 | 25 2 |
| 7 2 | 20 8 | 5 15 | 27 39 | | 24 37 | | 23 20 | 6 31 | 28 32 | 9 27 | 31 25 | 22 2 | 25 2 |
| 8 17 | 21 37 | 6 45 | 29 1 | 1 24 | 24 59 | 0 8 | 23 46 | 8 14 | 29 12 | 10 41 | 32 54 | 22 2 | 25 2 |

FINDING RISING and SETTING
of the PLANETS (Noon = 12h)

MERCURY ☿ VENUS ♀

MORNING AND EVENING

☿ MERCURY being at western

moment a star of 1st mag.

[illegible]

| HELIOGRAPHIC ELEMENTS. | | | | | | | | | |
|------------------------|-------|-------------|--|-----------------|--|------|--|-------|--|
| At noon. | | Sun's Azim. | | Centre of Disc. | | Lat. | | Long. | |
| Day | | | | | | | | | |
| 5 | 239 R | 394 | | | | | | | |
| 15 | 215 | 28 | | | | | | | |
| 25 | 184 R | 143 | | | | | | | |

(See Note p 4) THE MOON

| Day of M. | Rises. | | Sooths. | | Sets. | | At Greenwich 1 Midnight | | | | | | | | | | Age. | W. E. | | |
|-----------|--------|----|---------|----|-------|----|-------------------------|-------------------|----------------------------------|-------------------|----|----|----|----|----|----|------|-------|----|----|
| | | | | | | | Right Ascen- sion | Declina- tion. | Horiz- ontal Paral- lax | Semi- diameter | | | | | | | | | | |
| 1 | 15 | 26 | 20 | 34 | 2 | 5 | 23 | 21 | 17 | 7 | 30 | 35 | 54 | 29 | 14 | 51 | 11 | 2 | 10 | 34 |
| 2 | 15 | 26 | 21 | 24 | 3 | 16 | 0 | 4 | 8 | 1 | 50 | 65 | 54 | 50 | 14 | 57 | 12 | 2 | 10 | 34 |
| 3 | 15 | 26 | 21 | 54 | 4 | 28 | 0 | 47 | 16 | 2 | 58 | 67 | 55 | 17 | 15 | 4 | 13 | 2 | 10 | 34 |
| 4 | 15 | 27 | 22 | 36 | 5 | 43 | 1 | 32 | 12 | 9 | 45 | 6 | 55 | 48 | 15 | 12 | 14 | 2 | 10 | 34 |
| 5 | 15 | 29 | 23 | 20 | 7 | 1 | 2 | 19 | 28 | 15 | 16 | 3 | 56 | 21 | 15 | 21 | 15 | 2 | 10 | 34 |
| 6 | 16 | 15 | 0 | 8 | 8 | 23 | 3 | 30 | 9 | 20 | 13 | 3 | 56 | 34 | 15 | 30 | 16 | 2 | 10 | 34 |
| 7 | 16 | 36 | 1 | 1 | 9 | 48 | 4 | 4 | 50 | 24 | 16 | 3 | 57 | 25 | 15 | 39 | 17 | 2 | 10 | 34 |
| 8 | 17 | 6 | 1 | 58 | 11 | 3 | 5 | 3 | 16 | 27 | 3 | 8 | 57 | 53 | 15 | 46 | 18 | 2 | 10 | 34 |
| 9 | 17 | 57 | 2 | 59 | 12 | 8 | 6 | 4 | 59 | 28 | 17 | 0 | 58 | 17 | 15 | 53 | 19 | 2 | 10 | 34 |
| 10 | 18 | 53 | 3 | 0 | 12 | 56 | 7 | 7 | 30 | 27 | 44 | 0 | 58 | 38 | 15 | 58 | 20 | 2 | 10 | 34 |
| 11 | 20 | 12 | 4 | 59 | 13 | 8 | 8 | 9 | 15 | 25 | 27 | 9 | 58 | 54 | 16 | 3 | 21 | 2 | 10 | 34 |
| 12 | 21 | 38 | 5 | 56 | 13 | 57 | 9 | 8 | 9 | 21 | 37 | 2 | 59 | 7 | 16 | 6 | 22 | 2 | 10 | 34 |
| 13 | 23 | 7 | 6 | 49 | 14 | 9 | 10 | 3 | 50 | 16 | 31 | 3 | 59 | 16 | 16 | 9 | 23 | 2 | 10 | 34 |
| 14 | | | | | | | 10 | 56 | 50 | 10 | 31 | 6 | 59 | 20 | 16 | 10 | 24 | 2 | 10 | 34 |
| 15 | 0 | 34 | 7 | 39 | 14 | 23 | 11 | 47 | 45 | 3 | 59 | 67 | 59 | 18 | 16 | 10 | 25 | 2 | 10 | 34 |
| 16 | 1 | 59 | 8 | 27 | 14 | 31 | 12 | 37 | 47 | 2 | 43 | 55 | 59 | 10 | 16 | 7 | 26 | 2 | 10 | 34 |
| 17 | 3 | 24 | 9 | 14 | 14 | 43 | 13 | 53 | 20 | 9 | 16 | 1 | 58 | 55 | 16 | 3 | 27 | 2 | 10 | 34 |
| 18 | 4 | 49 | 10 | 3 | 15 | 1 | 14 | 10 | 51 | 15 | 19 | 4 | 58 | 31 | 15 | 57 | 21 | 2 | 10 | 34 |
| 19 | 0 | 15 | 10 | 53 | 15 | 18 | 15 | 13 | 38 | 20 | 30 | 9 | 58 | 1 | 15 | 48 | 2 | 10 | 34 | |
| 20 | 7 | 42 | 11 | 46 | 15 | 40 | 16 | 9 | 39 | 24 | 32 | 6 | 57 | 25 | 15 | 30 | 2 | 10 | 34 | |
| 21 | 9 | 5 | 12 | 41 | 15 | 10 | 17 | 7 | 22 | 27 | 27 | 1 | 56 | 46 | 15 | 20 | 2 | 10 | 34 | |
| 22 | 10 | 11 | 13 | 37 | 16 | 53 | 18 | 5 | 34 | 28 | 14 | 6 | 55 | 6 | 15 | 17 | 2 | 10 | 34 | |
| 23 | 12 | 19 | 14 | 33 | 17 | 49 | 19 | 2 | 40 | 27 | 48 | 0 | 55 | 29 | 15 | 7 | 2 | 10 | 34 | |
| 24 | 11 | 59 | 15 | 27 | 18 | 50 | 19 | 57 | 21 | 25 | 48 | 4 | 54 | 48 | 14 | 2 | 2 | 10 | 34 | |

CONJUNCTIONS ECLIPSES AND OTHER CELESTIAL PHENOMENA

November 1 Day breaks at 5h 0m Civil twilight ends at 17h 20m Night begins 18h 19m The 11th of the Day is 9h 39m Nov 1st Occultation by δ of ϕ Aquarii (Mag 4.5) See p 59
Nov 6th Occultation by the γ of δ Arctis (Mag 4.5) See p 59
Nov 7 Mercury in superior conjunction
Nov 11th Jupiter in conjunction with γ L 5.8
Nov 12th Mars in conjunction with δ 3.8
Nov 15 morn. Eclipse of Jupiter 11 See p 48
Nov 20th Full moon and occultation of Jupiter 11 See p 58 59
Nov 20 17h Venus in conjunction with γ 0.1 N -
Nov 21st Mercury in con-

In the 11th with the Morning star close 49 11 Aft. Oct 139
Constellations over the 4th meridian at 22h Pegasus Pleiades Andromeda Arctis Perseus

DECLINATION OF THE PLANETS AT NOON

| ☿ MERCURY | | | | | | | | | | ♀ VENUS | | | | | | | | | | ♂ MARS | | | | | | | | | | ♂ JUPITER | | | | | | | | | | ♂ SATURN | | | | | | | | | |
|-----------|----|----|----|----|----|---|----|----|----|---------|----|---|----|----|----|----|----|---|----|--------|----|----|----|----|----|----|----|----|----|-----------|----|----|----|----|----|----|---|--|--|----------|----|--|--|---|--|--|---|--|--|
| D | RA | | | N | | | I | | | D | RA | | | N | | | I | | | D | RA | | | N | | | I | | | D | RA | | | N | | | I | | | D | RA | | | N | | | I | | |
| 2 | 14 | 27 | 23 | 13 | 3 | 8 | 16 | 13 | 5 | 27 | 12 | 7 | 8 | 34 | 15 | 20 | 19 | 1 | 7 | 28 | 32 | 21 | 53 | 8 | 18 | 32 | 34 | 22 | 47 | 7 | 2 | 18 | 32 | 34 | 22 | 47 | 7 | | | | | | | | | | | | |
| 7 | 14 | 48 | 37 | 16 | 8 | 1 | 15 | 15 | 51 | 26 | 41 | 5 | 8 | 41 | 43 | 19 | 37 | 0 | 7 | 28 | 46 | 21 | 54 | 0 | 18 | 34 | 21 | 22 | 46 | 8 | 2 | 18 | 34 | 21 | 22 | 46 | 8 | | | | | | | | | | | | |
| 12 | 15 | 20 | 9 | 18 | 51 | 8 | 16 | 9 | 29 | 25 | 48 | 8 | 50 | 31 | 19 | 36 | 4 | 7 | 28 | 39 | 21 | 54 | 9 | 18 | 36 | 15 | 22 | 45 | 8 | 2 | 18 | 36 | 15 | 22 | 45 | 8 | | | | | | | | | | | | | |
| 17 | 15 | 52 | 8 | 21 | 13 | 0 | 15 | 59 | 49 | 27 | 27 | 3 | 8 | 57 | 37 | 19 | 18 | 0 | 7 | 28 | 10 | 21 | 56 | 6 | 18 | 38 | 16 | 22 | 44 | 5 | 2 | 18 | 38 | 16 | 22 | 44 | 5 | | | | | | | | | | | | |
| 22 | 16 | 14 | 42 | 23 | 7 | 7 | 15 | 48 | 22 | 22 | 43 | 8 | 9 | 35 | 10 | 2 | 5 | 7 | 27 | 19 | 21 | 59 | 1 | 18 | 40 | 23 | 22 | 43 | 0 | 2 | 18 | 40 | 23 | 22 | 43 | 0 | | | | | | | | | | | | | |
| 27 | 16 | 57 | 42 | 24 | 33 | 3 | 15 | 37 | 10 | 20 | 49 | 3 | 9 | 14 | 18 | 50 | 4 | 7 | 26 | 9 | 22 | 2 | 2 | 18 | 42 | 35 | 22 | 41 | 2 | 2 | 18 | 42 | 35 | 22 | 41 | 2 | | | | | | | | | | | | | |

THE SUN AND PLANETS

| ☉ HORIZONTAL PARALLAX | | | | | | | | ♂ JUPITER | | | | | | | | ♂ SATURN | | | | | | | | | | | | | | |
|-----------------------|---|----|---|-----|---|---|---|-----------|----|---|----|----|----|----|---|----------|---|----|----|---|----|---|---|----|----|----|---|----|----|----|
| O | D | I | P | O | D | I | P | O | D | I | P | O | D | I | P | O | D | I | P | | | | | | | | | | | |
| 5 | 8 | 25 | 6 | 12 | 5 | 2 | 8 | 15 | 10 | 2 | 27 | 4 | 2 | 19 | 5 | 7 | 1 | 15 | 10 | 2 | 27 | 4 | 2 | 19 | 5 | 7 | 1 | 15 | 10 | 2 |
| 15 | 8 | 90 | 4 | 134 | 0 | 8 | 4 | 1 | 9 | 0 | 8 | 10 | 12 | 3 | 6 | 4 | 5 | 10 | 12 | 3 | 6 | 4 | 5 | 10 | 12 | 3 | 6 | 4 | 5 | 10 |
| 25 | 8 | 21 | 4 | 33 | 0 | 9 | 1 | 0 | 0 | 8 | 16 | 13 | 2 | 4 | 3 | 4 | 8 | 10 | 13 | 2 | 4 | 3 | 4 | 8 | 10 | 13 | 2 | 4 | 3 | 4 |

NOV 32

1833 15 11 14 45 45 N
34 32 N Longitude 144 24 E

Nov 15 Mars in Transit 11 45 a.m.
3h 32m Neptune 11 45 a.m.

Time of High Water at the undermentioned Places—

| LONDON DOG | | | | L. KNOX | | | | DOG | | | | H. L. N. | | | | F. ALBION | | | | L. T. | | | | K. C. STONE | | | |
|------------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|
| Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | |
| H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. | H. M. |
| 9 44 | 23 3 | | | 7 53 | 20 5 | | | 3 6 | 15 49 | | | 1 37 | 14 48 | | | 9 32 | 21 29 | | | 11 43 | 23 52 | | | 8 33 | 20 34 | | |
| 11 9 | | | | 8 43 | 20 53 | | | 4 20 | 16 49 | | | 2 44 | 15 35 | | | 10 44 | 22 15 | | | 12 33 | | | | 9 23 | 21 13 | | |
| 0 1 | 12 4 | | | 9 24 | 21 32 | | | 5 10 | 17 31 | | | 3 32 | 16 14 | | | 10 45 | 22 49 | | | 0 34 | 13 13 | | | 9 44 | 21 43 | | |
| 0 38 | 12 42 | | | 9 59 | 22 9 | | | 5 48 | 18 8 | | | 4 13 | 16 48 | | | 11 10 | 23 20 | | | 1 11 | 13 45 | | | 10 22 | 22 11 | | |
| 1 10 | 13 12 | | | 10 33 | 22 43 | | | 6 24 | 18 41 | | | 4 50 | 17 20 | | | 11 47 | 23 51 | | | 1 48 | 14 15 | | | 10 40 | 22 40 | | |
| 1 38 | 13 44 | | | 11 4 | 23 17 | | | 6 53 | 19 12 | | | 5 25 | 17 50 | | | | 12 15 | | | 2 17 | 14 47 | | | 11 7 | 23 14 | | |
| 2 11 | 14 20 | | | 11 35 | 23 51 | | | 7 22 | 19 44 | | | 6 0 | 18 23 | | | 0 23 | 12 45 | | | 2 53 | 15 20 | | | 11 40 | 23 52 | | |
| 2 45 | 14 58 | | | 12 11 | | | | 8 0 | 20 20 | | | 6 36 | 18 55 | | | 0 57 | 13 15 | | | 3 34 | 15 59 | | | | 12 22 | | |
| 3 20 | 15 35 | | | 0 29 | 12 48 | | | 8 33 | 20 54 | | | 7 12 | 19 30 | | | 1 40 | 13 49 | | | 4 14 | 16 39 | | | 0 33 | 12 52 | | |
| 3 54 | 16 15 | | | 1 8 | 13 25 | | | 9 9 | 21 36 | | | 7 55 | 20 7 | | | 2 23 | 14 25 | | | 4 59 | 17 25 | | | 1 16 | 13 37 | | |
| 4 28 | 16 59 | | | 1 52 | 14 9 | | | 9 51 | 22 20 | | | 8 42 | 20 50 | | | 3 0 | 15 13 | | | 5 50 | 18 11 | | | 2 8 | 14 30 | | |
| 5 0 | 17 54 | | | 2 45 | 14 5 | | | 10 39 | 23 18 | | | 9 37 | 21 44 | | | 3 57 | 16 0 | | | 6 42 | 19 6 | | | 3 14 | 15 35 | | |
| 5 6 | 18 59 | | | 3 50 | 14 13 | | | 11 43 | | | | 10 46 | 22 52 | | | 4 56 | 16 53 | | | 7 48 | 20 11 | | | 4 31 | 16 54 | | |
| 7 12 | 20 17 | | | 5 10 | 17 35 | | | 0 33 | 13 5 | | | | 12 15 | | | 6 31 | 18 15 | | | 8 56 | 21 23 | | | 6 2 | 18 14 | | |
| 2 43 | 21 43 | | | 6 33 | 18 57 | | | 2 5 | 14 40 | | | 0 19 | 13 41 | | | 8 5 | 19 24 | | | 10 7 | 22 39 | | | 7 11 | 19 20 | | |
| 10 0 | 22 48 | | | 7 44 | 20 4 | | | 3 26 | 15 54 | | | 1 46 | 14 50 | | | 9 16 | 20 55 | | | 11 16 | 23 47 | | | 8 12 | 20 16 | | |
| 11 15 | 23 53 | | | 8 39 | 20 59 | | | 4 22 | 16 51 | | | 2 55 | 15 40 | | | 10 5 | 21 51 | | | 12 13 | | | | 8 57 | 21 10 | | |
| 12 7 | | | | 9 28 | 21 47 | | | 5 20 | 17 40 | | | 3 49 | | | | | | | | | | | | | | | |
| 0 37 | 12 51 | | | 10 12 | 22 31 | | | 6 7 | 18 26 | | | 4 35 | | | | | | | | | | | | | | | |
| 1 17 | 13 34 | | | 10 53 | 23 12 | | | 6 49 | 19 7 | | | 5 20 | | | | | | | | | | | | | | | |
| 2 59 | 14 19 | | | 11 32 | 23 53 | | | 7 27 | 19 46 | | | 6 1 | | | | | | | | | | | | | | | |
| 2 41 | 15 3 | | | 12 13 | | | | 8 6 | 20 23 | | | 6 44 | | | | | | | | | | | | | | | |
| 3 24 | 15 45 | | | 0 34 | 12 50 | | | 8 41 | 20 58 | | | 7 25 | 19 32 | | | 1 37 | 14 2 | | | 4 11 | 16 26 | | | 0 48 | 13 1 | | |
| 3 56 | 16 21 | | | 1 14 | 13 28 | | | 9 18 | 21 31 | | | 8 6 | 20 7 | | | 2 21 | 14 36 | | | 4 59 | 17 13 | | | 1 31 | 13 46 | | |
| 4 23 | 16 56 | | | 1 53 | 14 7 | | | 9 49 | 22 7 | | | 8 50 | 20 44 | | | 3 1 | 15 17 | | | 5 45 | 18 1 | | | 2 16 | 14 34 | | |
| 4 56 | 17 36 | | | 2 35 | 14 50 | | | 10 20 | 22 47 | | | 9 35 | 21 25 | | | 3 40 | 15 54 | | | 6 34 | 18 51 | | | 3 16 | 15 24 | | |
| 5 36 | 18 28 | | | 3 24 | 15 40 | | | 11 6 | 23 31 | | | 10 20 | 22 14 | | | 4 35 | 16 40 | | | 7 30 | 19 39 | | | 4 21 | 16 30 | | |
| 6 28 | 19 31 | | | 4 24 | 16 41 | | | | 24 0 | | | 11 30 | 23 14 | | | 5 39 | 17 30 | | | 8 23 | 20 38 | | | 5 22 | 17 37 | | |
| 7 22 | 20 42 | | | 5 35 | 17 51 | | | 0 33 | 13 10 | | | | 22 44 | | | 6 53 | 18 54 | | | 9 17 | 21 50 | | | 6 40 | 18 37 | | |

| Rises | S. sets | Rises | S. sets |
|-------|---------|-------|---------|
| h. m. | h. m. | h. m. | h. m. |
| 6 35 | 11 33 | 10 10 | 13 34 |
| 7 16 | 11 49 | 9 32 | 13 2 |
| 7 45 | 12 6 | 8 40 | 12 22 |
| 8 32 | 12 24 | 7 40 | 11 39 |
| 9 2 | 12 43 | 6 41 | 10 57 |

MARS

JUPITER

☿ MERCURY is at Superior conjunction on the 7th is not to be seen either morning or evening

♀ VENUS is not likely to be seen well this month. After inferior conjunction on the 22nd it becomes a morning star and rises more than an hour before the sun on the 26th

Time of High Water at the undermentioned Places—

| LONDON DOCK | | | | LIVERPOOL | | | | BRISTOL | | | | BIRMINGHAM | | | | LEITH | | | | KINGSTON G. I. | | | |
|-------------|----|-------|----|-----------|----|-------|----|---------|----|-------|----|------------|----|-------|----|-------|----|-------|----|----------------|----|-------|----|
| Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | | Morn. | | After | |
| H | M | H | M | H | M | H | M | H | M | H | M | H | M | H | M | H | M | H | M | H | M | H | M |
| 9 | 44 | 23 | 3 | 7 | 53 | 20 | 5 | 3 | 6 | 15 | 49 | 1 | 37 | 14 | 48 | 9 | 32 | 11 | 29 | 11 | 43 | 8 | 33 |
| 11 | 9 | | | 8 | 43 | 20 | 53 | 4 | 20 | 16 | 49 | 2 | 44 | 15 | 35 | 10 | 14 | 22 | 15 | | | 9 | 13 |
| 0 | 1 | 12 | 4 | 9 | 24 | 21 | 32 | 5 | 10 | 17 | 37 | 3 | 32 | 16 | 14 | 10 | 45 | 22 | 49 | 0 | 34 | 13 | 13 |
| 0 | 38 | 12 | 44 | 9 | 59 | 22 | 9 | 5 | 48 | 15 | 8 | 4 | 13 | 16 | 48 | 11 | 16 | 23 | 20 | 1 | 11 | 13 | 45 |
| 1 | 30 | 13 | 12 | 10 | 33 | 22 | 43 | 6 | 24 | 18 | 42 | 4 | 50 | 17 | 20 | 11 | 47 | 23 | 51 | 1 | 48 | 14 | 15 |
| 1 | 38 | 13 | 44 | 11 | 4 | 23 | 17 | 6 | 53 | 19 | 12 | 5 | 25 | 17 | 50 | | | 24 | 15 | 2 | 27 | 14 | 47 |
| 2 | 11 | 14 | 20 | 11 | 38 | 23 | 51 | 7 | 20 | 19 | 44 | 6 | 2 | 18 | 23 | 0 | 23 | 12 | 45 | 2 | 53 | 15 | 20 |
| 2 | 45 | 14 | 58 | | | 12 | 11 | 8 | 6 | 20 | 40 | 6 | 36 | 18 | 55 | 0 | 57 | 13 | 15 | 3 | 34 | 15 | 59 |
| 3 | 20 | 15 | 35 | 0 | 29 | 12 | 48 | 8 | 33 | 20 | 54 | 7 | 12 | 19 | 30 | 1 | 40 | 13 | 49 | 4 | 14 | 16 | 39 |
| 3 | 54 | 16 | 15 | 1 | 8 | 13 | 15 | 9 | 9 | 21 | 36 | 7 | 55 | 20 | 7 | 2 | 23 | 14 | 25 | 4 | 59 | 17 | 25 |
| 4 | 28 | 16 | 59 | 1 | 52 | 14 | 9 | 9 | 51 | 22 | 20 | 8 | 42 | 20 | 50 | 3 | 0 | 15 | 13 | 5 | 50 | 18 | 11 |
| 5 | 10 | 17 | 54 | 2 | 45 | 15 | 5 | 10 | 39 | 23 | 18 | 9 | 37 | 21 | 44 | 3 | 57 | 16 | 0 | 6 | 42 | 19 | 6 |
| 6 | 5 | 18 | 59 | 3 | 50 | 16 | 13 | 11 | 43 | | | 10 | 46 | 22 | 50 | 4 | 56 | 16 | 53 | 7 | 48 | 20 | 11 |
| 7 | 12 | 20 | 27 | 5 | 10 | 17 | 35 | 0 | 33 | 13 | 5 | 12 | 15 | 23 | 15 | 6 | 11 | 18 | 15 | 8 | 56 | 21 | 23 |
| 8 | 34 | 21 | 43 | 6 | 33 | 18 | 57 | 2 | 5 | 14 | 40 | 0 | 19 | 13 | 41 | 8 | 5 | 19 | 34 | 10 | 7 | 22 | 39 |
| 10 | 0 | 22 | 58 | 7 | 44 | 22 | 4 | 3 | 26 | 15 | 54 | 1 | 46 | 14 | 50 | 9 | 16 | 20 | 55 | 11 | 16 | 23 | 47 |
| 11 | 15 | 23 | 53 | 8 | 39 | 20 | 59 | 4 | 20 | 16 | 51 | 2 | 55 | 15 | 40 | 10 | 5 | 21 | 51 | 12 | 13 | 24 | 13 |
| | | 22 | 7 | 9 | 28 | 21 | 47 | 5 | 20 | 17 | 40 | 3 | 49 | 16 | 25 | 10 | 51 | 21 | 41 | 0 | 37 | 13 | 3 |
| 0 | 37 | 22 | 51 | 10 | 12 | 22 | 31 | 0 | 7 | 18 | 26 | 4 | 35 | 17 | 6 | 11 | 35 | 23 | 29 | 1 | 15 | 13 | 45 |
| 1 | 17 | 23 | 34 | 10 | 53 | 23 | 11 | 6 | 49 | 19 | 7 | 5 | 20 | 17 | 45 | | | 22 | 16 | 2 | 14 | 16 | |
| 2 | 50 | 24 | 29 | 11 | 32 | 23 | 51 | 7 | 27 | 19 | 46 | 6 | 1 | 18 | 21 | 0 | 9 | 22 | 51 | 2 | 44 | 15 | 2 |
| 2 | 42 | 25 | 3 | | | 12 | 13 | 8 | 6 | 20 | 23 | 6 | 44 | 18 | 56 | 0 | 50 | 23 | 26 | 3 | 28 | 15 | 41 |
| 3 | 22 | 25 | 45 | 0 | 34 | 12 | 50 | 8 | 41 | 20 | 58 | 7 | 25 | 19 | 32 | 1 | 37 | 14 | 2 | 4 | 11 | 16 | 26 |
| 3 | 55 | 26 | 22 | 1 | 14 | 13 | 28 | 9 | 18 | 21 | 33 | 8 | 6 | 20 | 7 | 2 | 21 | 14 | 38 | 4 | 57 | 17 | 13 |
| 4 | 25 | 25 | 56 | 1 | 53 | 14 | 7 | 9 | 49 | 22 | 7 | 8 | 50 | 20 | 44 | 3 | 1 | 15 | 17 | 5 | 45 | 18 | 1 |
| 4 | 56 | 27 | 36 | 2 | 35 | 14 | 50 | 10 | 20 | 23 | 47 | 9 | 35 | 21 | 25 | 3 | 40 | 15 | 54 | 6 | 34 | 18 | 51 |
| 5 | 36 | 28 | 26 | 3 | 24 | 15 | 40 | 11 | 6 | 23 | 31 | 10 | 20 | 22 | 14 | 4 | 35 | 16 | 40 | 7 | 30 | 19 | 39 |
| 6 | 28 | 29 | 32 | 4 | 24 | 16 | 41 | | | 24 | 0 | 11 | 30 | 23 | 14 | 5 | 39 | 17 | 36 | 8 | 23 | 20 | 38 |
| 7 | 22 | 20 | 42 | 5 | 35 | 17 | 52 | 0 | 33 | 23 | 10 | | | 24 | | 6 | 53 | 18 | 54 | 9 | 27 | 21 | 50 |

| Rises | Falls | Sets | Rises | Falls | Sets |
|-------|-------|-------|-------|-------|-------|
| h. m. | h. m. | h. m. | h. m. | h. m. | h. m. |
| 6 36 | 11 33 | 26 29 | 10 20 | 13 34 | 16 58 |
| 9 7 | 12 49 | 26 22 | 9 32 | 13 2 | 16 32 |
| 6 7 | 12 6 | 16 17 | 8 40 | 12 22 | 16 5 |
| 3 8 | 12 24 | 16 10 | 7 40 | 11 30 | 15 39 |
| 0 9 | 12 43 | 16 24 | 6 41 | 10 57 | 15 14 |

MARS

JUPITER

| Rises | Recesses | Sets | Rises | Recesses | Sets |
|-------|----------|-------|-------|----------|-------|
| h. m. | h. m. | h. m. | h. m. | h. m. | h. m. |

SATURN

| | Rises | | Recesses | | Sets | |
|----|-------|----|----------|----|------|----|
| | h | m | h | m | h | m |
| 2 | 11 | 51 | 15 | 48 | 19 | 45 |
| 9 | 11 | 26 | 15 | 23 | 19 | 20 |
| 16 | 11 | 1 | 14 | 56 | 18 | 55 |
| 13 | 10 | 36 | 14 | 34 | 18 | 31 |
| 10 | 10 | 12 | 14 | 9 | 18 | 7 |

☿ MERCURY being at Superior conjunction on the 7th is not to be seen either morning or evening

♀ VENUS is not likely to be seen well this month. After inferior conjunction on the 2nd, it becomes a morning star and rises more than an hour before the Sun on the 20th.

| DAY OF | | Fasts and Festivals. | | TIME | | DAY | |
|--------|--|--|--|--------|--|-------|--|
| M | | Remarkable Days—Events | | Rises. | | Sets. | |
| LUNAR | | SUN'S LONGITUDE | | H. M. | | H. M. | |
| 1 | | 270° 15' and 24h. | | 7 44 | | 15 53 | |
| 2 | | 1830 | | 7 46 | | 15 53 | |
| 3 | | 1830 | | 7 47 | | 15 53 | |
| 4 | | John Tyndall died 1893, born Aug 21, 1820 | | 7 49 | | 15 51 | |
| 5 | | Adm of the Fleet Earl Jellicoe, G C B, born 1859 | | 7 50 | | 15 51 | |
| 6 | | Warren Hastings born, 1732 Cawnpore, 1857. | | 7 51 | | 15 50 | |
| 7 | | 2nd Sunday in Advent | | 7 52 | | 15 50 | |
| 8 | | Naval action off Falkland Islands, 1914 | | 7 53 | | 15 50 | |
| 9 | | m captured, '17 | | 7 55 | | 15 49 | |
| 10 | | raturist, d 1883 | | 7 56 | | 15 49 | |
| 11 | | omwung d 1889 | | 7 57 | | 15 49 | |
| 12 | | Dr Samuel Johnson, lexicographer, died, 1784 | | 7 58 | | 15 49 | |
| 13 | | 3rd Sunday in Advent Duke of York born, 1895 | | 8 0 | | 15 49 | |
| 14 | | Isaac Walton angler, died 1683 Colenso, 1899 | | 8 1 | | 15 49 | |
| 15 | | | | | | 15 49 | |
| 16 | | | | | | 15 49 | |
| 17 | | | | | | 15 50 | |
| 18 | | | | | | 15 50 | |
| 19 | | | | | | 15 50 | |
| 20 | | | | | | 15 51 | |
| 21 | | 4th Sunday in Advent St Thomas | | 8 5 | | 15 51 | |
| 22 | | Shortest Day O S Calverley, poet born, 1831 | | 8 6 | | 15 51 | |
| 23 | | Hansom Cabs patented, 1834 Magdhaba, 1916 | | 8 6 | | 15 51 | |
| 24 | | James Smith, "Rejected Addresses," died 1839. | | 8 7 | | 15 51 | |
| 25 | | Christmas Day Quarter Day | | 8 7 | | 15 53 | |
| 26 | | St Stephen Boxing Day Bank Holiday | | 8 7 | | 15 54 | |
| 27 | | St John Charles Lamb died, 1834 | | 8 8 | | 15 54 | |
| 28 | | 1st of Christmas Innocents Day. Childermas | | 8 8 | | 15 55 | |
| 29 | | Thomas Sydenham, physician, died, 1669 | | 8 8 | | 15 56 | |
| 30 | | Dr Macaulay d 1859 Rudyard Kipling b 1865 | | 8 8 | | 15 57 | |
| 31 | | First woman magistrate sat, 1919 | | 8 8 | | 15 58 | |

PHASES OF THE MOON

| | | | |
|--------------|----|----|--------|
| Full Moon | 61 | ah | 30 pm. |
| Last Quarter | 18 | ao | 6 0 |
| New Moon | 30 | 1 | 237 |

MONTHLY NOTES

1st 3 to 9. D. 1st 3 to 9. 3rd Warm Period
 15 Last day for renewing Solicitors' e
 cates

1930.]

DECEMBER TWELFTH MONTH.

[47]

| Ephemeris of Time | | THE SUN (Mean Noon) | | | | | School Time at Mean Noon | Mean Time at 10:00 AM |
|-------------------|-------|---------------------|--------|--------|-------|--------|--------------------------|-----------------------|
| Day | Month | Hour | Minute | Second | Third | Fourth | Hour | Minute |
| 1 | 12 | 5 | 0 | 00 | 10 | 78 | 11 | 44 |
| 2 | 12 | 5 | 0 | 08 | 10 | 78 | 11 | 44 |
| 3 | 12 | 5 | 0 | 16 | 10 | 78 | 11 | 44 |
| 4 | 12 | 5 | 0 | 24 | 10 | 78 | 11 | 44 |
| 5 | 12 | 5 | 0 | 32 | 10 | 78 | 11 | 44 |
| 6 | 12 | 5 | 0 | 40 | 10 | 78 | 11 | 44 |
| 7 | 12 | 5 | 0 | 48 | 10 | 78 | 11 | 44 |
| 8 | 12 | 5 | 0 | 56 | 10 | 78 | 11 | 44 |
| 9 | 12 | 5 | 0 | 04 | 10 | 78 | 11 | 44 |
| 10 | 12 | 5 | 0 | 12 | 10 | 78 | 11 | 44 |
| 11 | 12 | 5 | 0 | 20 | 10 | 78 | 11 | 44 |
| 12 | 12 | 5 | 0 | 28 | 10 | 78 | 11 | 44 |
| 13 | 12 | 5 | 0 | 36 | 10 | 78 | 11 | 44 |
| 14 | 12 | 5 | 0 | 44 | 10 | 78 | 11 | 44 |
| 15 | 12 | 5 | 0 | 52 | 10 | 78 | 11 | 44 |
| 16 | 12 | 5 | 0 | 00 | 10 | 78 | 11 | 44 |
| 17 | 12 | 5 | 0 | 08 | 10 | 78 | 11 | 44 |
| 18 | 12 | 5 | 0 | 16 | 10 | 78 | 11 | 44 |
| 19 | 12 | 5 | 0 | 24 | 10 | 78 | 11 | 44 |
| 20 | 12 | 5 | 0 | 32 | 10 | 78 | 11 | 44 |
| 21 | 12 | 5 | 0 | 40 | 10 | 78 | 11 | 44 |
| 22 | 12 | 5 | 0 | 48 | 10 | 78 | 11 | 44 |
| 23 | 12 | 5 | 0 | 56 | 10 | 78 | 11 | 44 |
| 24 | 12 | 5 | 0 | 04 | 10 | 78 | 11 | 44 |
| 25 | 12 | 5 | 0 | 12 | 10 | 78 | 11 | 44 |
| 26 | 12 | 5 | 0 | 20 | 10 | 78 | 11 | 44 |
| 27 | 12 | 5 | 0 | 28 | 10 | 78 | 11 | 44 |
| 28 | 12 | 5 | 0 | 36 | 10 | 78 | 11 | 44 |
| 29 | 12 | 5 | 0 | 44 | 10 | 78 | 11 | 44 |
| 30 | 12 | 5 | 0 | 52 | 10 | 78 | 11 | 44 |
| 31 | 12 | 5 | 0 | 00 | 10 | 78 | 11 | 44 |

MEMORANDA

HELIOGRAPHIC ELEMENTS

| Day | Time | Latitude | Longitude |
|-----|-------|----------|-----------|
| 1 | 14 67 | 0 37 | |
| 2 | 10 3 | 2 08 | 221 |
| 3 | 5 6 K | 0 37 | |

Time of High Water at the undermentioned Places—

| Date | LONDON BRIDGE | | | LIVERPOOL | | | FALMOUTH | | | HULL (TUNNINGHAM) | | | GARRNOCK | | | LEITH | | | KINGSTOWN Q. I. | | |
|------|---------------|-------|--|-----------|-------|--|----------|-------|--|-------------------|-------|--|----------|-------|--|-------|-------|--|-----------------|-------|--|
| | Morn. | After | | Morn. | After | | Morn. | After | | Morn. | After | | Morn. | After | | Morn. | After | | Morn. | After | |
| 1 | 9 59 | 43 5 | | 7 45 | 19 59 | | 3 5 | 15 40 | | 1 44 | 14 45 | | 9 10 | 22 19 | | 11 21 | 23 40 | | 6 23 | 20 | |
| 2 | 11 7 | 43 55 | | 8 35 | 20 48 | | 4 7 | 16 36 | | 2 42 | 15 30 | | 9 54 | 22 4 | | 12 10 | | | 9 5 | 21 | |
| 3 | 11 59 | | | 9 20 | 21 31 | | 4 59 | 17 23 | | 3 30 | 16 10 | | 10 28 | 22 44 | | 0 29 | 12 53 | | 9 40 | 22 | |
| 4 | 0 33 | 12 39 | | 9 59 | 22 14 | | 5 44 | 18 7 | | 4 15 | 16 45 | | 11 7 | 23 24 | | 1 10 | 13 32 | | 10 10 | 23 | |
| 5 | 1 8 | 13 19 | | | | | | | | | | | | | | 2 4 | | | | | |
| 6 | 1 45 | 13 59 | | | | | | | | | | | | | | | | | | | |
| 7 | 2 24 | 14 44 | | | | | | | | | | | | | | | | | | | |
| 8 | 3 2 | 15 27 | | | | | | | | | | | | | | | | | | | |
| 9 | 3 42 | 16 13 | | | | | | | | | | | | | | | | | | | |
| 10 | 4 24 | 17 2 | | | | | | | | | | | | | | | | | | | |
| 11 | 5 8 | 17 54 | | | | | | | | | | | | | | | | | | | |
| 12 | 6 1 | 18 55 | | | | | | | | | | | | | | | | | | | |
| 13 | 7 2 | 20 1 | | | | | | | | | | | | | | | | | | | |
| 14 | 8 10 | 21 12 | | 6 1 | 18 23 | | 1 36 | 14 1 | | 13 6 | | | 7 21 | 19 14 | | 9 27 | 22 0 | | 6 35 | 18 | |
| 15 | 9 25 | 22 23 | | 7 10 | 19 33 | | 2 49 | 15 14 | | 2 11 | 14 15 | | 8 30 | 20 20 | | 10 30 | 23 5 | | 7 41 | 19 | |
| 16 | 10 49 | 23 21 | | 8 11 | 20 34 | | 3 54 | 16 20 | | 3 25 | 15 14 | | 9 28 | 21 21 | | 11 33 | | | 8 36 | 20 | |
| 17 | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | |
| 21 | 11 11 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | |
| 25 | 4 36 | 17 20 | | 2 14 | 14 24 | | 10 23 | 22 31 | | 9 13 | 21 1 | | 3 30 | 15 20 | | 0 2 | 10 1 | | 2 41 | 14 | |
| 26 | 5 13 | 18 2 | | 3 52 | 15 4 | | 10 48 | 23 7 | | 9 53 | 22 41 | | 4 14 | 16 9 | | 6 42 | 12 44 | | 3 32 | 15 | |
| | | | | | | | | | | | | | | | | 7 25 | 19 20 | | 4 24 | 16 | |
| | | | | | | | | | | | | | | | | 8 11 | 20 17 | | 5 18 | 17 | |
| | | | | | | | | | | | | | | | | 9 2 | 21 18 | | 6 12 | 18 | |
| | | | | | | | | | | | | | | | | 9 54 | 22 16 | | 6 56 | 19 | |
| | | | | | | | | | | | | | | | | 10 53 | 23 18 | | 8 9 | 20 | |

RISING, SETTING and SETTING
OF PLANETS (NOON = 12h)

| Date | MERCURY ☿ | | | VENUS ♀ | | |
|------|----------------|-----------------|---------------|----------------|-----------------|---------------|
| | Rises h. m. | Souths h. m. | Sets h. m. | Rises h. m. | Souths h. m. | Sets h. m. |
| 1 | 9 26 | 13 2 | 16 38 | 5 58 | 10 21 | 14 51 |
| 7 | 9 38 | 13 18 | 16 59 | 5 13 | 9 52 | 14 31 |
| 14 | 9 34 | 13 26 | 17 18 | 4 48 | 9 30 | 14 13 |
| 21 | 9 5 | 13 21 | 17 27 | 4 33 | 9 15 | 13 57 |

| Date | MARS ♂ | | | JUPITER ♃ | | |
|------|----------------|-----------------|---------------|----------------|-----------------|---------------|
| | Rises h. m. | Souths h. m. | Sets h. m. | Rises h. m. | Souths h. m. | Sets h. m. |
| 7 | 20 30 | 4 13 | 11 57 | 18 12 | 2 18 | 10 24 |
| 14 | 20 4 | 3 48 | 11 32 | 17 40 | 1 42 | 9 55 |
| 21 | 19 36 | 3 21 | 11 7 | 17 8 | 1 17 | 9 25 |
| 28 | 19 3 | 2 51 | 10 40 | 16 36 | 0 45 | 8 54 |

MORNING AND EVENING STARS

| Date | MORNING STARS | | | EVENING STARS | | |
|------|----------------|-----------------|---------------|----------------|-----------------|---------------|
| | Rises h. m. | Souths h. m. | Sets h. m. | Rises h. m. | Souths h. m. | Sets h. m. |
| 1 | 11 11 | 13 2 | 16 38 | 5 58 | 10 21 | 14 51 |
| 7 | 11 23 | 13 18 | 16 59 | 5 13 | 9 52 | 14 31 |
| 14 | 11 19 | 13 26 | 17 18 | 4 48 | 9 30 | 14 13 |
| 21 | 11 10 | 13 21 | 17 27 | 4 33 | 9 15 | 13 57 |

SATURN which sets in the twilight is not lik

50] NOTES FOR THE YEAR 1931.

BEING THE THIRD YEAR AFTER BISSEXTILE OR LEAP YEAR, AND 21 AND 22 OF KING GEORGE

Calendar Elements and Dates for the Year.

| | | | |
|-------------------------------------|----------|---------------------------------|-------|
| Golden Number | VIII | But Sunday | May |
| Epoit | 11 | Birth of Queen Mary (1867) | " |
| Solar Cycle (Year of) | 8 | Union Day South Africa | " |
| Roman Indiction (Year of) | 14 | Jan 15, 1st | " |
| Dominical Letter | 11 | Birth of King George V (1865) | June |
| Juban Period (Year of) | 6644 | Corpus Christi | " |
| Julian Day, Jan. 1 (be. line at 11) | 2416 243 | Birth of Prince of Wales (1894) | " |
| Year's Day (Thursday) | Jan 1 | Dominion Day Canada | " |
| Foundation Day, Australia | Feb 26 | Independence Day U.S.A. | July |
| Septuagesima Sunday | Feb 6 | Jewish New Year 5691 | Sept. |
| Ash Wed. enlay | 187 | Armistice Day (1918) | Nov. |
| Good Friday | April 3 | 5 Sundays after Trinity | " |
| Easter Day | 5 | First Sunday after Ascension | " |
| St. George's Day | 23 | St. Andrew's Day | Nov. |
| Accession of King George V (1910) | May 6 | CHRISTMAS DAY—Friday | Dec. |
| Ascension Day | 14 | | |

The Tropical Year 1931-1932.

| | | |
|-----------------------|-----------------------|-------------|
| Spring Equinox (1931) | Sun enters Sign Aries | March 21 14 |
| Summer Solstice | " Cancer | June 22 9 |
| Autumn Equinox | " Libra | Sept. 24 4 |
| Winter Solstice | " Capricornus | Dec. 22 19 |
| Spring Equinox (1932) | " Aries | March 21 20 |

Phases of the Moon, 1931.

| January | | | | May | | | | September | | | |
|---------------|------------|---------------|-----------|---------------|------------|--|--|-----------|--|--|--|
| Full Moon | 4d 23h 25m | Full Moon | 21 5h 24m | Last Quarter | 5d 7h 21m | | | | | | |
| Last Quarter | 11 5 9 | Last Quarter | 28 12 48 | New Moon | 12 4 26 | | | | | | |
| New Moon | 18 18 36 | New Moon | 27 13 28 | First Quarter | 18 20 37 | | | | | | |
| First Quarter | 27 0 5 | First Quarter | 24 19 37 | Full Moon | 25 19 45 | | | | | | |
| Full Moon | 31 0 25 | Full Moon | 31 14 33 | Last Quarter | 2d 20h 25m | | | | | | |
| Last Quarter | 9 16 10 | Last Quarter | 6 6h 18 | New Moon | 11 13 6 | | | | | | |
| New Moon | 17 13 11 | New Moon | 16 3 23 | First Quarter | 18 9 20 | | | | | | |
| First Quarter | 25 10 42 | First Quarter | 20 0 47 | Full Moon | 26 23 34 | | | | | | |
| Full Moon | 31 0 25 | Full Moon | 7 23h 52m | Last Quarter | 3d 7h 17m | | | | | | |
| Last Quarter | 11 5 9 | Last Quarter | 15 12 20 | New Moon | 9 25 55 | | | | | | |
| New Moon | 19 7 51 | New Moon | 21 5 16 | First Quarter | 17 8 12 | | | | | | |
| First Quarter | 27 5 4 | First Quarter | 20 12 47 | Full Moon | 25 7 10 | | | | | | |
| Full Moon | 31 0 25 | Full Moon | 6 12h 28 | Last Quarter | 2 12h 50 | | | | | | |
| Last Quarter | 9 16 10 | Last Quarter | 13 20 27 | New Moon | 9 10 16 | | | | | | |
| New Moon | 17 13 11 | New Moon | 20 11 36 | First Quarter | 16 20 43 | | | | | | |
| First Quarter | 25 10 42 | First Quarter | 28 3 10 | Full Moon | 24 23 24 | | | | | | |

Calendar for the Year 1931.

Calendar for the Year 1931

| Calendar for the Year 1931 | | | | | | | | | | | | | | | | | | | | |
|----------------------------|----|----|----|----|----------|----|----|----|----|----------|----|----|----|----|----------|----|----|----|----|----|
| January | | | | | February | | | | | March | | | | | April | | | | | |
| 1 | 4 | 11 | 18 | 25 | 1 | 8 | 15 | 22 | 29 | 1 | 8 | 15 | 22 | 29 | 5 | 12 | 19 | 26 | | |
| 2 | 5 | 12 | 19 | 26 | 2 | 9 | 16 | 23 | 30 | 2 | 9 | 16 | 23 | 30 | 6 | 13 | 20 | 27 | | |
| 3 | 6 | 13 | 20 | 27 | 3 | 10 | 17 | 24 | 31 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | | |
| 4 | 7 | 14 | 21 | 28 | 4 | 11 | 18 | 25 | — | 4 | 11 | 18 | 25 | — | 8 | 15 | 22 | 29 | | |
| 5 | 8 | 15 | 22 | 29 | 5 | 12 | 19 | 26 | — | 5 | 12 | 19 | 26 | — | 9 | 16 | 23 | 30 | | |
| 6 | 9 | 16 | 23 | 30 | 6 | 13 | 20 | 27 | — | 6 | 13 | 20 | 27 | — | 10 | 17 | 24 | 31 | | |
| 7 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | — | 7 | 14 | 21 | 28 | — | 11 | 18 | 25 | — | | |
| May | | | | | June | | | | | July | | | | | August | | | | | |
| 1 | 3 | 10 | 17 | 24 | 1 | 7 | 14 | 21 | 28 | — | 5 | 12 | 19 | 26 | — | 3 | 10 | 17 | 24 | |
| 2 | 4 | 11 | 18 | 25 | 2 | 8 | 15 | 22 | 29 | — | 6 | 13 | 20 | 27 | — | 4 | 11 | 18 | 25 | |
| 3 | 5 | 12 | 19 | 26 | 3 | 9 | 16 | 23 | 30 | — | 7 | 14 | 21 | 28 | — | 5 | 12 | 19 | 26 | |
| 4 | 6 | 13 | 20 | 27 | 4 | 10 | 17 | 24 | 31 | — | 8 | 15 | 22 | 29 | — | 6 | 13 | 20 | 27 | |
| 5 | 7 | 14 | 21 | 28 | 5 | 11 | 18 | 25 | — | 9 | 16 | 23 | 30 | — | 7 | 14 | 21 | 28 | | |
| 6 | 8 | 15 | 22 | 29 | 6 | 12 | 19 | 26 | — | 10 | 17 | 24 | 31 | — | 8 | 15 | 22 | 29 | | |
| 7 | 9 | 16 | 23 | 30 | 7 | 13 | 20 | 27 | — | 11 | 18 | 25 | — | — | 9 | 16 | 23 | 30 | | |
| September | | | | | October | | | | | November | | | | | December | | | | | |
| 1 | 6 | 13 | 20 | 27 | 1 | 4 | 11 | 18 | 25 | — | 1 | 8 | 15 | 22 | 29 | — | 6 | 13 | 20 | 27 |
| 2 | 7 | 14 | 21 | 28 | 2 | 5 | 12 | 19 | 26 | — | 2 | 9 | 16 | 23 | 30 | — | 7 | 14 | 21 | 28 |
| 3 | 8 | 15 | 22 | 29 | 3 | 6 | 13 | 20 | 27 | — | 3 | 10 | 17 | 24 | 31 | — | 8 | 15 | 22 | 29 |
| 4 | 9 | 16 | 23 | 30 | 4 | 7 | 14 | 21 | 28 | — | 4 | 11 | 18 | 25 | — | 9 | 16 | 23 | 30 | |
| 5 | 10 | 17 | 24 | 31 | 5 | 8 | 15 | 22 | 29 | — | 5 | 12 | 19 | 26 | — | 10 | 17 | 24 | 31 | |
| 6 | 11 | 18 | 25 | — | 6 | 9 | 16 | 23 | 30 | — | 6 | 13 | 20 | 27 | — | 11 | 18 | 25 | — | |
| 7 | 12 | 19 | 26 | — | 7 | 10 | 17 | 24 | 31 | — | 7 | 14 | 21 | 28 | — | 12 | 19 | 26 | — | |

WHITAKER'S ALMANAC, 1930

of the Sun is on the visible horizon is the time when the Sun rises and sets. The legal question has been more concerned with the distinction between local sunrise and Greenwich sunrise rather than with a

TO FIND THE GREENWICH TIME OF SUNRISE AT CERTAIN PLACES IN THE BRITISH ISLES IN EACH MONTH OF THE YEAR.

| | Jan. | Feb. | Mar. | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. |
|-------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|------|
| | m. | m. | m. | m. | m. | m. | m. | m. | m. | m. | m. | m. | m. |
| Cape Wrath | +66 | +50 | +34 | +18 | -7 | -26 | -39 | -24 | +6 | +24 | +43 | +62 | +81 |
| Wick | +57 | +41 | +25 | +9 | -14 | -32 | -36 | -21 | -1 | +16 | +35 | +53 | +71 |
| Inverness | +54 | +41 | +26 | +11 | -5 | -20 | -23 | -10 | +6 | +20 | +36 | +50 | +64 |
| Aberdeen | +43 | +31 | +17 | +3 | -12 | -26 | -29 | -17 | -2 | +11 | +26 | +40 | +54 |
| Glasgow | +43 | +34 | +23 | +13 | +2 | -8 | -10 | -2 | +9 | +20 | +30 | +40 | +50 |
| Newcastle | +26 | +20 | +12 | +3 | -5 | -13 | -15 | -8 | 0 | +8 | +17 | +24 | +31 |
| Liverpool | +42 | +36 | +25 | +14 | +3 | +6 | +4 | +10 | +18 | +25 | +33 | +40 | +47 |
| Dublin | +23 | +19 | +15 | +10 | +6 | +2 | +1 | +4 | +9 | +13 | +18 | +22 | +27 |
| Hull | +35 | +32 | +28 | +23 | +19 | +15 | +11 | +6 | +2 | +2 | +3 | +4 | +5 |
| Holyhead | +14 | +10 | +5 | -1 | -6 | -11 | -12 | -8 | -3 | +3 | +8 | +13 | +17 |
| Birmingham | +28 | +25 | +21 | +17 | +13 | +9 | +6 | +2 | +1 | +6 | +10 | +14 | +17 |
| Truro | +13 | +11 | +9 | +7 | +5 | +3 | +2 | +1 | +1 | +2 | +3 | +4 | +5 |
| Norwich | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 |
| Colchester | +3 | 0 | -3 | -7 | -10 | -13 | -14 | -11 | -8 | -4 | -1 | +2 | +5 |
| Dover | -2 | -2 | -3 | -4 | -5 | -6 | -6 | -5 | -4 | -3 | -2 | -1 | 0 |
| Southampton | -7 | -6 | -6 | -5 | -4 | -4 | -4 | -4 | -3 | -2 | -1 | 0 | +1 |
| Plymouth | -2 | 4 | +5 | +6 | +7 | +8 | +9 | +8 | +7 | +5 | +4 | +3 | +2 |
| Penzance | +21 | +21 | +21 | +21 | +20 | +22 | +21 | +21 | +21 | +20 | +19 | +18 | +17 |
| Kilmarock | +26 | +28 | +28 | +28 | +26 | +29 | +29 | +27 | +26 | +24 | +22 | +20 | +18 |
| Kilmarock | +44 | +40 | +30 | +27 | +26 | +25 | +25 | +26 | +27 | +28 | +29 | +30 | +31 |

TO FIND THE GREENWICH TIME OF SUNSET AT CERTAIN PLACES IN THE BRITISH ISLES IN EACH MONTH OF THE YEAR.

This Table, similar to the preceding, can be used in the same way to find the approximate time of sunset at places other than Greenwich.

| | Jan. | Feb. | Mar. | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. |
|------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|------|
| | m. | m. | m. | m. | m. | m. | m. | m. | m. | m. | m. | m. | m. |
| Cape Wrath | -26 | -10 | +8 | +27 | +45 | +65 | +70 | +54 | +34 | +16 | -3 | -22 | -41 |
| Wick | -32 | -16 | +1 | +20 | +39 | +57 | +61 | +45 | +26 | +8 | -10 | -28 | -47 |
| Inverness | -29 | -7 | +8 | +23 | +39 | +54 | +57 | +44 | +28 | +14 | -2 | -27 | -46 |
| Aberdeen | -26 | -14 | 0 | +14 | +29 | +43 | +46 | +34 | +19 | +5 | -9 | -23 | -42 |
| Glasgow | -18 | 0 | +11 | +22 | +32 | +43 | +44 | +36 | +25 | +15 | +4 | -6 | -25 |
| Newcastle | -13 | -7 | +2 | +10 | +18 | +26 | +28 | +21 | +13 | +5 | -4 | -11 | -30 |
| Liverpool | +6 | +12 | +19 | +27 | +34 | +41 | +43 | +37 | +29 | +22 | +14 | +8 | +1 |
| Dublin | +2 | +5 | +10 | +14 | +19 | +23 | +24 | +20 | +16 | +11 | +7 | +3 | +0 |
| Hull | +13 | +18 | +23 | +27 | +31 | +35 | +36 | +33 | +28 | +24 | +20 | +15 | +10 |
| Holyhead | -11 | -7 | -2 | +4 | +9 | +14 | +15 | +11 | +8 | 0 | -5 | -10 | -15 |
| Birmingham | +2 | +7 | +12 | +16 | +20 | +24 | +25 | +22 | +18 | +14 | +10 | +6 | +2 |
| Truro | +8 | +4 | +6 | +9 | +11 | +13 | +13 | +11 | +9 | +7 | +5 | +3 | +1 |
| Norwich | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 | +10 |
| Colchester | -13 | -11 | -7 | -4 | 0 | +3 | +3 | +1 | -3 | -6 | -10 | -14 | -18 |
| Dover | -6 | -5 | -4 | -3 | -2 | -2 | -1 | -1 | -2 | -4 | -5 | -5 | -5 |

Tables for Determining the Latitude FROM THE OBSERVED ALTITUDE OF POLARIS OUT OF THE MERIDIAN

TABLE I Arguments—Local Sidereal Time of Observation

| Local Sidereal Time | | Correc- tion. | Local Sidereal Time | | Correc- tion. | Local Sidereal Time | | Correc- tion. | Local Sidereal Time | | Correc- tion. |
|---------------------|-------|------------------|---------------------|-------|------------------|---------------------|-------|------------------|---------------------|-------|------------------|
| H | M | | H | M | | H | M | | H | M | |
| 0 | 12 0 | 0 58 5 | 2 30 | 14 30 | 1 22 5 | 0 | 17 0 | 40 3 | 7 40 | 19 40 | 1 1 |
| 10 | 12 10 | 0 59 5 | 2 40 | 14 40 | 1 15 5 | 10 | 17 10 | 38 1 | 7 50 | 19 50 | 3 9 |
| 20 | 12 20 | 1 0 5 | 2 50 | 14 50 | 1 07 5 | 20 | 17 20 | 35 8 | 8 0 | 20 0 | 6 7 |
| 30 | 12 30 | 1 1 4 | 3 0 | 15 0 | 0 59 7 | 30 | 17 30 | 33 4 | 8 10 | 20 10 | 9 5 |
| 40 | 12 40 | 1 2 1 | 3 10 | 15 10 | 0 58 7 | 40 | 17 40 | 31 0 | 8 20 | 20 20 | 12 2 |

TABLE II Arguments—Local Sidereal Time and Altitude

| Local Sidereal Time | ALTITUDE | | | | | | | | | | | | Local Sidereal Time | Obsd. Alt. |
|---------------------------|----------|----|----|----|----|----|----|----|----|----|-----|-----|---------------------------|----------------------|
| | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | | |
| H M | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | | |
| 0 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 0 | Obsd. Alt. = 46 27 2 |
| 10 | 00 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 10 | From 1 - 0 41 8 |
| 20 | 00 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 20 | Tables II + 0 4 |
| 30 | 00 | 00 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 30 | Latitude III - 0 3 |
| 40 | 00 | 00 | 00 | 00 | 01 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 40 | Latitude 45 35 |

The corrections in this Table are always additive to the reduced altitude

TABLE III Arguments—Local Sidereal Time and Date

| Local Sidereal Time | Jan. 1 | Feb. 1 | Mar. 1 | April 1 | May 1 | June 1 | July 1 | Aug. 1 | Sept. 1 | Oct. 1 | Nov. 1 | Dec. 1 | Dec. 31 |
|---------------------|--------|--------|--------|---------|-------|--------|--------|--------|---------|--------|--------|--------|---------|
| H | | | | | | | | | | | | | |
| 0 | +0 1 | +0 1 | -0 1 | -0 2 | -0 3 | -0 4 | -0 4 | -0 3 | -0 1 | +0 1 | +0 3 | +0 4 | +0 |
| 2 | 00 | 00 | 00 | -0 1 | -0 3 | -0 4 | -0 5 | -0 4 | -0 3 | -0 1 | 00 | +0 2 | +0 |
| 4 | -0 1 | 00 | 00 | 00 | -0 2 | -0 3 | -0 4 | -0 5 | -0 5 | -0 4 | -0 2 | -0 1 | +0 |
| 6 | -0 2 | 00 | +0 1 | +0 1 | 00 | -0 1 | -0 3 | -0 4 | -0 5 | -0 5 | -0 5 | -0 3 | -0 |
| 8 | -0 3 | 00 | +0 1 | +0 2 | +0 2 | +0 1 | 00 | -0 2 | -0 4 | -0 5 | -0 5 | -0 5 | -0 |
| 10 | -0 2 | -0 1 | +0 1 | +0 3 | +0 3 | +0 3 | +0 2 | 00 | -0 2 | -0 3 | -0 5 | -0 5 | -0 |
| 12 | -0 1 | -0 1 | +0 1 | +0 3 | +0 3 | +0 4 | +0 4 | +0 3 | +0 1 | -0 3 | -0 3 | -0 4 | -0 |
| 14 | 00 | 00 | 00 | +0 1 | +0 1 | +0 4 | +0 5 | +0 4 | +0 3 | +0 2 | 00 | -0 2 | -0 |
| 16 | +0 1 | 00 | 00 | 00 | +0 2 | +0 3 | +0 4 | +0 5 | +0 5 | +0 4 | +0 2 | +0 1 | -0 |
| 18 | +0 2 | 00 | -0 1 | -0 1 | 00 | +0 1 | +0 3 | +0 4 | +0 5 | +0 5 | +0 5 | +0 3 | +0 |
| 20 | +0 2 | 00 | -0 1 | -0 2 | -0 3 | -0 3 | 00 | +0 2 | +0 4 | +0 5 | +0 5 | +0 5 | +0 |
| 22 | +0 3 | +0 1 | -0 1 | -0 3 | -0 3 | -0 3 | -0 2 | 00 | +0 2 | +0 1 | +0 5 | +0 5 | +0 |
| 24 | +0 3 | +0 1 | -0 1 | -0 3 | -0 3 | -0 4 | -0 4 | -0 3 | -0 1 | +0 1 | +0 3 | +0 4 | +0 |

The corrections in this Table are to be applied with the signs given. The final result is not diminished by 1' as directed in previous tables of this kind.

TABLE SHOWING THE VARIATION OF THE HEIGHT AND DIRECTION OF THE SUN IN THE SEVERAL HOURS OF THE DAY THROUGHOUT THE YEAR IN LATITUDE 53° N

| Apparent Time | Noon. | 11 or 12 | 10 or 11 | 9 or 10 | 8 or 9 | 7 or 8 | 6 or 7 | 5 or 6 | 4 or 5 | 3 or 4 | 2 or 3 | 1 or 2 | Due West. | Azimuth at Rising or Setting. |
|---------------|--------|----------|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|-------------------------------|
| Date. | Alt. | Alt. | Az. | Alt. | Az. | Alt. | Az. | Alt. | Az. | Alt. | Az. | Alt. | Alt. | |
| Dec 22 | 23° 6' | 22 5 | 105 9 | 2 | 159 4 | 139 0 | 5 | 126 | | | | | 0 | 231 |
| Jan 21 | 26 9 | 25 8 | 105 12 | 4 | 151 7 | 138 0 | 5 | 126 | | | | | 0 | 225 |
| Feb 20 | 28 0 | 24 4 | 104 20 | 7 | 148 15 | 134 8 | 1 | 121 | | | | | 0 | 209 |
| Mar 21 | 37 3 | 35 8 | 161 31 | 6 | 144 25 | 128 17 | 9 | 115 | 104 | 0 | 90 6 | 0 | 0 | 90 |
| Apr 20 | 48 5 | 46 8 | 155 42 | 1 | 139 35 | 122 27 | 0 | 108 18 | 95 | 9 | 83 5 | 25 | 14 | 71 |
| May 22 | 57 4 | 55 7 | 155 50 | 1 | 133 42 | 116 34 | 1 | 101 25 | 89 | 16 | 77 4 | 55 | 26 | 54 |
| June 21 | 66 4 | 58 3 | 153 52 | 7 | 131 45 | 113 35 | 4 | 90 27 | 87 | 18 | 75 4 | 44 | 30 | 49 |

Solar and Sidereal Time

TO FORM EQUIVALENT INTERVALS OF SOLAR AND SIDEREAL TIME

The length of a Sidereal day is 23 h 56 m 4.09 s of Mean Time. One hour of Sidereal Time is

| Accre- rat on. | Argu- ment | Relat- dal o. | Accre- rat on. | Argu- ment | P. t. r lat on. | Accre- rat on. | Argu- ment | P. t. r lat on. | Accre- rat on. | Argu- ment | Relat- dal o. | Accre- rat on. | Argu- ment | Relat- dal o. |
|-------------------|---------------|------------------|-------------------|---------------|--------------------|-------------------|---------------|--------------------|-------------------|---------------|------------------|-------------------|---------------|------------------|
| 1 | 0 9 56 | 0 16 | 1 | 0 9 53 | 0 16 | 3 09 | 31 | 5 08 | 1 | 0 00 | 31 | 0 08 | 31 | 0 08 |
| 2 | 0 19 71 | 0 33 | 2 | 0 19 06 | 0 33 | 5 46 | 32 | 5 44 | 2 | 0 01 | 32 | 0 09 | 32 | 0 09 |
| 3 | 0 29 57 | 0 40 | 3 | 0 29 49 | 0 40 | 5 43 | 33 | 5 41 | 3 | 0 01 | 33 | 0 09 | 33 | 0 09 |
| 4 | 0 39 41 | 0 66 | 4 | 0 39 32 | 0 66 | 5 59 | 34 | 5 57 | 4 | 0 01 | 34 | 0 09 | 34 | 0 09 |
| 5 | 0 49 18 | 0 82 | 5 | 0 49 15 | 0 82 | 5 75 | 35 | 5 73 | 5 | 0 01 | 35 | 0 10 | 35 | 0 10 |
| 6 | 0 59 14 | 0 99 | 6 | 0 58 58 | 0 99 | 5 52 | 36 | 5 50 | 6 | 0 02 | 36 | 0 10 | 36 | 0 10 |
| 7 | 1 9 00 | 1 15 | 7 | 1 8 41 | 1 15 | 6 08 | 37 | 6 06 | 7 | 0 02 | 37 | 0 10 | 37 | 0 10 |
| 8 | 1 18 56 | 1 31 | 8 | 1 18 54 | 1 31 | 6 24 | 38 | 6 22 | 8 | 0 02 | 38 | 0 10 | 38 | 0 10 |
| 9 | 1 28 71 | 1 48 | 9 | 1 28 47 | 1 48 | 6 41 | 39 | 6 39 | 9 | 0 02 | 39 | 0 11 | 39 | 0 11 |
| 10 | 1 38 55 | 1 64 | 10 | 1 38 30 | 1 64 | 6 57 | 40 | 6 55 | 10 | 0 03 | 40 | 0 11 | 40 | 0 11 |
| 11 | 1 48 43 | 1 81 | 11 | 1 48 13 | 1 81 | 6 74 | 41 | 6 72 | 11 | 0 03 | 41 | 0 11 | 41 | 0 11 |
| 12 | 1 58 28 | 1 97 | 12 | 1 57 55 | 1 97 | 6 90 | 42 | 6 88 | 12 | 0 03 | 42 | 0 11 | 42 | 0 11 |
| 13 | 2 8 13 | 2 14 | 13 | 2 7 28 | 2 13 | 7 06 | 43 | 7 04 | 13 | 0 04 | 43 | 0 12 | 43 | 0 12 |
| 14 | 2 17 09 | 2 30 | 14 | 2 17 01 | 2 30 | 7 23 | 44 | 7 21 | 14 | 0 04 | 44 | 0 12 | 44 | 0 12 |
| 15 | 2 27 05 | 2 46 | 15 | 2 27 44 | 2 46 | 7 39 | 45 | 7 37 | 15 | 0 04 | 45 | 0 12 | 45 | 0 12 |
| 16 | 2 37 50 | 2 63 | 16 | 2 37 47 | 2 63 | 7 56 | 46 | 7 54 | 16 | 0 04 | 46 | 0 13 | 46 | 0 13 |
| 17 | 2 47 56 | 2 79 | 17 | 2 47 10 | 2 79 | 7 72 | 47 | 7 70 | 17 | 0 05 | 47 | 0 13 | 47 | 0 13 |
| 18 | 2 57 43 | 2 95 | 18 | 2 56 03 | 2 95 | 7 89 | 48 | 7 86 | 18 | 0 05 | 48 | 0 13 | 48 | 0 13 |
| 19 | 3 7 27 | 3 11 | 19 | 3 6 76 | 3 11 | 8 05 | 49 | 8 03 | 19 | 0 05 | 49 | 0 13 | 49 | 0 13 |
| 20 | 3 17 13 | 3 27 | 20 | 3 16 59 | 3 27 | 8 21 | 50 | 8 19 | 20 | 0 05 | 50 | 0 14 | 50 | 0 14 |
| 21 | 3 26 99 | 3 43 | 21 | 3 26 42 | 3 43 | 8 38 | 51 | 8 36 | 21 | 0 05 | 51 | 0 14 | 51 | 0 14 |
| 22 | 3 36 84 | 3 61 | 22 | 3 36 45 | 3 61 | 8 54 | 52 | 8 52 | 22 | 0 05 | 52 | 0 14 | 52 | 0 14 |
| 23 | 3 46 70 | 3 78 | 23 | 3 46 08 | 3 78 | 8 71 | 53 | 8 68 | 23 | 0 05 | 53 | 0 15 | 53 | 0 15 |
| 24 | 3 56 56 | 3 94 | 24 | 3 55 01 | 3 94 | 8 87 | 54 | 8 85 | 24 | 0 07 | 54 | 0 15 | 54 | 0 15 |
| 25 | | | 25 | 4 11 | 4 10 | 9 04 | 55 | 9 02 | 25 | 0 07 | 55 | 0 15 | 55 | 0 15 |
| 26 | | | 26 | 4 27 | 4 26 | 9 20 | 56 | 9 17 | 26 | 0 07 | 56 | 0 15 | 56 | 0 15 |
| 27 | | | 27 | 4 44 | 4 42 | 9 36 | 57 | 9 34 | 27 | 0 07 | 57 | 0 16 | 57 | 0 16 |
| 28 | | | 28 | 4 60 | 4 59 | 9 53 | 58 | 9 50 | 28 | 0 08 | 58 | 0 16 | 58 | 0 16 |
| 29 | | | 29 | 4 76 | 4 75 | 9 69 | 59 | 9 67 | 29 | 0 08 | 59 | 0 16 | 59 | 0 16 |
| 30 | | | 30 | 4 93 | 4 91 | 9 86 | 60 | 9 83 | 30 | 0 08 | 60 | 0 16 | 60 | 0 16 |

See p. 77

See p. 77

Tables for Determining the Latitude FROM THE OBSERVED ALTITUDE OF POLARIS OUT OF THE MERIDIAN

TABLE I Arguments—Local Sidereal Time of Observation

| Local Sidereal Time | | Correc- tion. | Local Sidereal Time | | Correc- tion. | Local Sidereal Time | | Correc- tion. | Local Sidereal Time | | Correc- tion. | Local Sidereal Time | | Correc- tion. | Local Sidereal Time | | Correc- tion. |
|---------------------|-------|------------------|---------------------|------|------------------|---------------------|------|------------------|---------------------|------|------------------|---------------------|-------|------------------|---------------------|-----|------------------|
| H M | H M | | H M | H M | | H M | H M | | H M | H M | | H M | H M | | H M | H M | |
| 0 0 | 12 0 | 0 | 58 5 | 2 30 | 14 30 | 1 22 | 5 0 | 17 0 | 40 3 | 7 40 | 19 40 | 1 1 | 10 0 | 22 0 | 37 6 | | |
| 0 10 | 12 10 | 0 | 59 5 | 2 40 | 14 40 | 1 15 | 5 10 | 17 10 | 38 1 | 7 50 | 19 50 | 3 9 | 10 10 | 22 10 | 39 8 | | |
| 0 20 | 12 20 | 1 | 0 5 | 2 50 | 14 50 | 1 07 | 5 20 | 17 20 | 35 8 | 8 0 | 20 0 | 6 7 | 10 20 | 22 20 | 42 0 | | |
| 0 30 | 12 30 | 1 | 1 4 | 3 0 | 15 0 | 0 59 | 5 30 | 17 30 | 33 4 | 8 10 | 20 10 | 9 5 | 10 30 | 22 30 | 44 1 | | |
| 0 40 | 12 40 | 1 | 2 1 | 3 10 | 15 10 | 0 58 | 5 40 | 17 40 | 31 0 | 8 20 | 20 20 | 12 2 | 10 40 | 22 40 | 46 0 | | |
| 0 50 | 12 50 | 1 | 2 7 | 3 20 | 15 20 | 0 57 | 5 50 | 17 50 | 28 6 | 8 30 | 20 30 | 14 9 | 10 50 | 22 50 | 47 9 | | |
| 1 0 | 13 0 | 1 | 3 2 | 3 30 | 15 30 | 0 56 | 6 0 | 18 0 | 26 0 | 8 40 | 20 40 | 17 6 | 11 0 | 23 0 | 49 7 | | |
| 1 10 | 13 10 | 1 | 3 6 | 3 40 | 15 40 | 0 54 | 6 10 | 18 10 | 23 5 | 8 50 | 20 50 | 20 3 | 11 10 | 23 10 | 51 4 | | |
| 1 20 | 13 20 | 1 | 3 8 | 3 50 | 15 50 | 0 53 | 6 20 | 18 20 | 20 8 | 9 0 | 21 0 | 22 9 | 11 20 | 23 20 | 53 1 | | |
| 1 30 | 13 30 | 1 | 4 0 | 4 0 | 16 0 | 0 51 | 6 30 | 18 30 | 18 2 | 9 10 | 21 10 | 25 5 | 11 30 | 23 30 | 54 6 | | |
| 1 40 | 13 40 | 1 | 4 0 | 4 10 | 16 10 | 0 50 | 6 40 | 18 40 | 15 5 | 9 20 | 21 20 | 28 1 | 11 40 | 23 40 | 56 0 | | |
| 1 50 | 13 50 | 1 | 3 9 | 4 20 | 16 20 | 0 48 | 6 50 | 18 50 | 12 8 | 9 30 | 21 30 | 30 5 | 11 50 | 23 50 | 57 3 | | |
| 2 0 | 14 0 | 1 | 3 6 | 4 30 | 16 30 | 0 46 | 7 0 | 19 0 | 10 0 | 9 40 | 21 40 | 33 0 | 12 0 | 24 0 | 58 5 | | |
| 2 10 | 14 10 | 1 | 3 3 | 4 40 | 16 40 | 0 44 | 7 10 | 19 10 | 7 2 | 9 50 | 21 50 | 35 3 | | | | | |
| 2 20 | 14 20 | 1 | 2 8 | 4 50 | 16 50 | 0 42 | 7 20 | 19 20 | 4 5 | 10 0 | 22 0 | 37 6 | | | | | |
| 2 30 | 14 30 | 1 | 2 2 | 5 0 | 17 0 | 0 40 | 7 30 | 19 30 | 1 7 | | | | | | | | |

The corrections in this Table are to be applied to the reduced altitude with the sign found at the head of the column which contains the argument

TABLE II Arguments—Local Sidereal Time and Altitude

| Local Sidereal Time | ALTITUDE. | | | | | | P. E.—On April 25 | |
|---------------------|-----------|-----|-----|-----|-----|-----|-------------------|--|
| | 0 | 10 | 15 | 20 | 25 | 30 | | |
| H M | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 1 | | |
| 1 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | | |
| 2 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |

Obsd. Alt = 46 17 2
From Table II + 0 41 8
III - 0 1
Latitude 45 35 27

The corrections in this Table are always additive to the reduced altitude.

TABLE III Arguments—Local Sidereal Time and Date

| Local Sidereal Time | Jan. L. | Feb. L. | Mar. L. | April L. | May L. | June L. | July L. | Aug. L. | Sept. L. | Oct. L. | Nov. L. | Dec. L. |
|---------------------|---------|---------|---------|----------|--------|---------|---------|---------|----------|---------|---------|---------|
| 0 | +0 1 | +0 1 | -0 1 | -0 2 | -0 3 | -0 4 | -0 4 | -0 3 | -0 1 | +0 1 | +0 3 | +0 4 |
| 2 | 0 0 | 0 0 | 0 0 | -0 1 | -0 2 | -0 3 | -0 4 | -0 4 | -0 3 | -0 2 | 0 0 | +0 2 |
| 4 | -0 1 | 0 0 | 0 0 | 0 0 | -0 2 | -0 3 | -0 4 | -0 5 | -0 5 | -0 4 | -0 2 | +0 1 |
| 6 | -0 2 | 0 0 | +0 1 | +0 1 | 0 0 | -0 1 | -0 3 | -0 4 | -0 5 | -0 5 | -0 3 | -0 2 |
| 8 | -0 2 | 0 0 | +0 1 | +0 2 | +0 2 | 0 0 | -0 2 | -0 4 | -0 5 | -0 5 | -0 5 | -0 4 |
| 10 | -0 2 | -0 1 | +0 1 | +0 2 | +0 3 | +0 3 | +0 2 | 0 0 | -0 2 | -0 3 | -0 5 | -0 5 |
| 12 | -0 1 | -0 1 | +0 1 | +0 2 | +0 3 | +0 4 | +0 4 | +0 3 | +0 1 | -0 1 | -0 3 | -0 4 |
| 14 | 0 0 | 0 0 | 0 0 | +0 1 | +0 2 | +0 4 | +0 5 | +0 4 | +0 3 | +0 2 | 0 0 | -0 2 |
| 16 | +0 1 | 0 0 | 0 0 | 0 0 | +0 2 | +0 3 | +0 4 | +0 5 | +0 5 | +0 4 | +0 2 | +0 1 |
| 18 | +0 2 | 0 0 | -0 1 | -0 1 | 0 0 | +0 1 | +0 3 | +0 4 | +0 5 | +0 5 | +0 5 | +0 2 |
| 20 | +0 2 | 0 0 | -0 1 | -0 2 | -0 2 | -0 1 | 0 0 | +0 2 | +0 4 | +0 5 | +0 5 | +0 2 |
| 22 | +0 2 | +0 1 | -0 1 | -0 2 | -0 3 | -0 3 | -0 2 | 0 0 | +0 2 | +0 3 | +0 5 | +0 5 |
| 24 | +0 2 | +0 2 | -0 1 | -0 2 | -0 3 | -0 4 | -0 4 | -0 3 | +0 1 | +0 2 | +0 5 | +0 5 |

The corrections in this Table are to be applied with the signs given. The final result is not to be diminished by 1 as directed in previous tables of this kind.

Celestial Phenomena for Observation in 1930.

in the Pacific Ocean at a point 4° north of the Central Equinox D. H. M.
Equator in longitude 173° west travelling | begins Oct 27 20 4 in 144 48 E. 4 37 N

11 22 4 11 254 45W 35 69

• 23 22 22 6W 48 69.

ipse will be seen from the eastern
in soon after sunrise of October 22

| | At 12 | - | 12 | Ag. | Begin | Greatest | Ends |
|------------------|-------|-----------|-----------|------|----------|----------|-------|
| | | | | | D. M. H. | Phase. | H. M. |
| Annual total | 18 49 | 22 29 1/2 | 35 25 1/2 | 0 13 | 21 20 27 | 20 56 | 21 26 |
| Total to January | 19 27 | 22 23 1/2 | 45 40 1/2 | 0 14 | 21 20 38 | 21 3 | 21 34 |
| Cent at Eclipse | | | | 0 24 | 21 20 18 | 20 58 | 21 40 |
| Ends | 20 40 | 22 44 1/2 | 50 45 1/2 | 0 22 | 21 20 33 | 21 21 | 21 33 |

150

ES: 10-204 00 31 11771 4 8 3 0711200

[illegible]

ECLIPSATIONS OF STARS BY THE MOON

| Day | Star | Mag. | Phase and C.T. | Angle from Point | Day | Star | Mag. | Phase and G.U.T. | Angle from Point |
|-------------|-----------------|------|----------------|------------------|-------------|-----------------|------|------------------|------------------|
| <i>Jan</i> | | | | | <i>Sept</i> | | | | |
| 3 | B.D. - 19° 6176 | 6.2 | D | 17 34 | 5 | 37 Capricorn | 5.7 | D | 21 58 |
| 8 | o Piscium | 4.5 | D | 21 50 | 12 | o Arietis | 5.4 | R. | 23 19 |
| 12 | 95 Tauri | 6.2 | D | 3 57 | 13 | o Arietis | 5.6 | R. | 23 33 |
| 14 | o Geminorum | 5.5 | D | 18 18 | 13 | 45 Arietis | 6.0 | R. | 23 29 |
| 23 | 25 Libræ | 6.0 | R. | 4 10 | 15 | B.D. + 26° 674 | 6.3 | R. | 0 23 |
| <i>Feb</i> | | | | | 15 | B.D. + 25° 870 | 5.7 | R. | 23 26 |
| 8 | k Tauri | 5.6 | D | 17 22 | <i>Oct</i> | | | | |
| 10 | 47 Geminorum | 5.6 | D | 17 52 | 4 | 74 Aquarii | 5.2 | D | 23 0 |
| 10 | 134 B Geminorum | 6.5 | D | 20 14 | 14 | 49 Aurigæ | 5.1 | R. | 4 44 |
| 11 | Alacerti | 5.9 | D | 18 56 | 30 | B.D. - 19° 6176 | 6.2 | D | 21 25 |
| <i>Mar</i> | | | | | <i>Nov</i> | | | | |
| 10 | o Lacerti | 6.1 | D | 21 58 | 1 | 61 Aquarii | 4.5 | D | 17 51 |
| 10 | 4 Lacerti | 6.2 | D | 22 26 | 2 | 27 Piscium | 5.1 | D | 17 33 |
| <i>Apr</i> | | | | | 2 | 29 Piscium | 5.1 | D | 19 52 |
| 4 | B.D. + 26° 870 | 5.7 | D | 22 21 | 6 | o Arietis | 4.5 | R. | 23 2 |
| 4 | B.D. + 26° 884 | 6.5 | D | 23 10 | 7 | 63 Arietis | 5.2 | R. | 5 30 |
| 6 | o Geminorum | 5.5 | D | 22 37 | 9 | B.D. + 27° 943 | 6.5 | R. | 19 46 |
| <i>May</i> | | | | | 9 | B.D. + 27° 945 | 6.2 | R. | 20 12 |
| 15 | 43 Ophiuchi | 5.4 | R. | 1 14 | 10 | 47 Geminorum | 5.6 | R. | 23 0 |
| <i>June</i> | | | | | 10 | B.D. + 27° 1337 | 6.4 | R. | 23 50 |
| 6 | h Virginis | 5.4 | D | 23 3 | 12 | 28 Lacerti | 6.1 | R. | 6 27 |
| 9 | Cor 21 856 | 6.2 | D | 23 7 | 15 | B.D. + 8° 2476 | 5.8 | R. | 6 9 |
| 30 | h Leonis | 5.2 | D | 22 0 | <i>Dec</i> | | | | |
| <i>July</i> | | | | | 1 | o Piscium | 5.6 | D | 16 45 |
| 13 | B.D. - 18° 6056 | 6.4 | R. | 23 51 | 1 | 88 Piscium | 6.2 | D | 21 37 |
| 20 | 29 Arietis | 6.1 | R. | 1 49 | 2 | B.D. + 11° 261 | 6.0 | D | 20 18 |
| <i>Aug</i> | | | | | 3 | o Arietis | 5.2 | D | 20 27 |
| 4 | 43 Ophiuchi | 5.4 | D | 20 1 | 4 | 45 Arietis | 6.0 | D | 0 39 |
| 11 | 44 Aquarii | 4.6 | R. | 23 8 | 5 | 33 Tauri | 6.0 | D | 4 4 |
| 12 | 27 Piscium | 5.1 | I | 22 10 | 5 | 161 B Tauri | 6.4 | D | 5 45 |
| 13 | 29 Piscium | 5.1 | R. | 0 25 | 7 | 136 Tauri | 4.6 | R. | 2 12 |
| 14 | B.D. + 27° 2137 | 6.4 | P | 23 56 | 9 | o Cancer | 6.1 | R. | 1 28 |
| 17 | 54 Arietis | 6.5 | R. | 2 12 | 0 | 4 Cancri | 6.2 | R. | 1 51 |
| 17 | 32 Iau 1 | 4.8 | R. | 23 50 | 11 | 107 B Leo 1 | 6.3 | R. | 5 0 |
| 23 | 161 B Iau 1 | 6.5 | R. | 1 29 | 26 | B.D. - 7° 6036 | 6.4 | D | 21 3 |
| 27 | 47 Cr 1 | 5.6 | R. | 3 2 | 31 | o Arietis | 4.5 | D | 16 11 |
| | | | | | 31 | 63 Arietis | 5.2 | D | 22 49 |

| | | | | | | | | |
|-----------|------|-------|------|------|-----|-------|------|----|
| Procyon | 1 50 | 7 30 | 8 1 | 3 83 | +32 | 2 35 | 7 8 | As |
| Polaris | 0 48 | 7 35 | 38 3 | 3 14 | +5 | 24 40 | 9 2 | As |
| Hydra | 1 22 | 7 41 | 2 1 | 3 67 | +28 | 18 48 | 8 6 | As |
| Hydra | 3 53 | 8 43 | 4 2 | 3 18 | +6 | 40 33 | 13 3 | As |
| Hydra | 3 22 | 8 54 | 25 4 | 4 13 | +48 | 19 4 | 14 1 | As |
| Urs Major | 2 16 | 9 24 | 8 8 | 2 95 | - 8 | 21 15 | 15 6 | As |
| Urs Major | 3 26 | 9 28 | 12 1 | 4 02 | +51 | 59 31 | 16 3 | As |
| Leonis | 3 12 | 9 41 | 52 9 | 3 41 | +24 | 5 21 | 15 5 | As |
| Leonis | 3 10 | 10 4 | 38 7 | 3 20 | +12 | 18 37 | 17 6 | As |
| Regulus | 2 61 | 10 26 | 6 9 | 3 31 | +20 | 13 46 | 18 2 | As |

[illegible]

STARS VISIBLE FROM THE SOUTHERN HEMISPHERE

[illegible]

parallaxes in the
a morning table are
in singly trigono-
metric and have
been taken from
the General Cata-
logue of Parallaxes
collected by Dr.
Frank Schlesinger
of Yale. The
entry also indicates
that the star is

| | | |
|-----------|-----------------|----------------------|
| Drac nia | 3 47 15 23 22 1 | 1 33 + 59 12 39 12 6 |
| Corae | 2 31 15 31 43 3 | 2 54 + 26 56 57 12 2 |
| Serpentis | 2 75 15 40 49 0 | 2 95 + 6 38 41 11 4 |
| Scorpii | 2 90 16 1 21 8 | 3 49 - 19 36 54 9 9 |
| Ophiuchi | 3 03 16 20 40 5 | 3 14 - 3 50 55 9 3 |
| Drac nia | 2 89 16 23 2 2 | 0 81 + 61 40 20 8 2 |
| Antares | 1 22 16 25 6 7 | 3 68 - 26 16 41 8 1 |
| Herculis | 2 81 16 27 12 5 | 2 58 + 21 38 18 7 9 |
| Herculis | 3 00 16 38 38 7 | 2 26 + 31 41 43 6 6 |
| Ophiuchi | 3 42 16 54 21 2 | 2 84 + 9 28 57 5 7 |

| | | |
|----------|-----------------|---------------------|
| Herculis | 3 25 17 12 9 3 | 2 46 + 24 15 24 4 3 |
| Drac nia | 2 59 17 28 30 9 | 1 35 + 54 21 9 2 7 |
| Ophiuchi | 2 24 17 31 21 2 | 2 78 + 12 26 26 2 7 |
| Ophiuchi | 2 94 17 40 0 8 | 2 96 + 4 35 43 1 6 |
| Herculis | 3 48 17 43 43 0 | 2 35 + 27 45 38 2 2 |
| Urs. Min | 4 44 17 54 47 7 | 1 03 + 26 36 48 0 4 |
| Drac nia | 2 42 17 54 58 7 | 1 39 + 51 19 47 0 5 |

| | | |
|----------|-----------------|---------------------|
| Vega. | 0 14 18 34 34 0 | 2 03 + 38 43 3 3 3 |
| Urs. Min | 6 55 18 46 45 2 | 7 7 + 89 2 4 4 1 |
| Lyre | 2 18 18 47 29 6 | 2 21 + 33 16 49 4 1 |

| | | |
|-----------|-----------------|---------------------|
| Aquillae | 3 02 19 2 11 5 | 2 76 + 13 45 30 5 3 |
| Aquila | 3 44 19 23 58 1 | 3 02 + 2 58 26 7 2 |
| Scorpii | 3 24 19 27 53 8 | 2 42 + 27 46 42 7 5 |
| Aquila | 2 80 19 41 55 9 | 2 85 + 10 26 30 8 7 |
| Altair | 0 89 19 47 22 0 | 2 93 + 8 40 56 9 4 |
| Aquillae | 3 90 19 51 52 5 | 2 95 + 6 13 51 8 9 |
| Aquila | 3 37 20 7 41 6 | 3 10 - 1 49 10 6 |
| Capricorn | 3 27 20 14 10 3 | 3 33 11 45 47 11 1 |
| Cygni | 3 32 20 19 42 9 | 2 15 + 40 1 54 11 5 |
| Cygni | 2 23 20 19 2 6 | 2 04 + 45 1 46 12 8 |

| | | |
|------------|-----------------|----------------------|
| Cygni | 2 64 20 43 22 6 | 2 43 + 33 48 26 13 4 |
| Cygni | 3 40 21 9 57 3 | 2 55 + 29 56 21 14 7 |
| Cygni | 2 60 21 16 54 5 | 2 43 + 64 17 19 25 2 |
| Polaris | 2 54 21 40 44 8 | 2 94 + 9 37 12 16 5 |
| Aquarii | 3 19 22 2 23 3 | 3 68 - 0 39 38 17 5 |
| Regulus | 3 10 22 39 43 0 | 2 82 + 29 51 17 18 2 |
| Forlignant | 1 29 22 51 47 2 | 3 31 29 59 37 19 1 |
| Markab | 2 57 23 1 16 3 | 2 99 + 14 49 42 19 4 |
| Alcum | 3 85 23 13 1 1 | 3 11 + 2 53 59 19 7 |
| Alcum | 4 03 23 55 41 9 | 3 08 + 6 28 33 19 9 |

STARS VISIBLE FROM THE SOUTHERN HEMISPHERE - contd. above

| | | |
|------------|-----------------|-----------------------|
| Crucis | 1 50 22 43 37 0 | 3 49 - 59 18 23 19 7 |
| Crucis | 0 56 23 38 53 0 | 4 22 - 60 2 10 17 4 |
| Crucis | 0 05 24 16 49 7 | 4 05 - 62 30 51 24 9 |
| Tri. Aust. | 1 28 26 41 14 1 | 6 31 - 68 54 6 6 8 |
| Octantis | 5 48 29 47 38 2 | 2 88 0 - 84 22 41 9 1 |
| Urs. Min | 2 21 30 40 7 3 | 4 76 - 56 57 39 11 4 |
| Urs. Min | 2 16 32 3 49 8 | 3 79 - 47 18 21 7 4 |

| | | | |
|-----|-------|--------|----------|
| Hap | - 001 | 00 | 000 |
| Ho | + 001 | - 0 09 | 040 25 6 |
| Ho | + 017 | + 0 09 | 057 17 5 |
| Ho | - 001 | 000 | 003 333 |
| Ho | + 001 | + 0 01 | 018 55 6 |
| Ho | + 036 | + 0 39 | 204 4 90 |
| Ho | + 002 | + 0 48 | 076 12 8 |
| Ho | + 002 | + 0 01 | 015 66 7 |
| Ho | + 004 | + 0 01 | 000 |
| Ho | - 000 | 000 | 000 |
| Asp | - 001 | 00 | 005 200 |
| Ho | + 018 | + 0 33 | 041 24 4 |
| Ho | - 001 | - 0 05 | 024 41 7 |
| Ho | + 020 | + 0 05 | 083 18 6 |
| Ho | + 001 | + 0 01 | 002 500 |
| Ho | + 001 | 000 | 009 122 |
| Go | 000 | - 0 03 | 000 |
| Ho | + 015 | - 0 16 | 137 7 30 |
| Ho | + 004 | + 0 04 | 018 26 3 |
| Ho | + 050 | + 0 03 | 028 35 7 |
| Ho | + 010 | - 0 11 | 011 90 9 |

AS FASHION AND
DECLINATION OF
POLARIS AT INTER
VALS OF 20 DAT:

| | |
|----------|----------|
| Jan 1 | 104 1 |
| Jan 21 | 80 7 51 |
| Feb 20 | 58 6 51 |
| Mar 2 | 38 2 |
| Mar 22 | 26 9 51 |
| April 11 | 21 9 51 |
| May 2 | 26 8 51 |
| May 21 | 38 6 51 |
| Jun 10 | 57 2 51 |
| June 30 | 79 1 51 |
| July 20 | 43 4 51 |
| Aug 9 | 65 7 51 |
| Aug 29 | 85 6 51 |
| Sept 18 | 102 0 51 |
| Oct. 8 | 113 4 51 |
| Oct. 28 | 113 4 51 |
| Nov 17 | 110 2 51 |
| Dec 7 | 99 2 51 |
| Dec. 27 | 80 2 51 |

Magnitudes.
Betel geuseos
Lyre 3 4 10 4

THE objects of the sky Sun Moon, Planets | per, 10 cubic | parsecs. It is obvious that a

THE TWENTY BRIGHTEST STARS

TWENTY NEAR STARS

| Star | Mag | Dist Received | Spec. trans. | Dis- tance in Par secs. | Lumini- ty | Star | Mag | Spec. trans. | Dis- tance in Par secs. | Also to Mag | Lum in 17 |
|---------------------|-------|------------------|-----------------|----------------------------------|---------------|---------------------|------|-----------------|----------------------------------|-------------------|--------------|
| Sirius | -1.58 | 100 | A | 2.70 | 32 | α^1 Centauri | 0.3 | G | 1.32 | 4.7 | 1.3 |
| Canopus | -0.85 | 52 | F | 300.0 | 51,000 | Munich 1 15040 | 9.7 | M | 1.86 | 13.4 | 0.0005 |
| Vega | 0.14 | 21 | A | 8.1 | 59 | W lf 359 | 13.5 | M | 2.48 | 16.5 | 0.0003 |
| Caylei | 0.21 | 19 | G | 13.3 | 150 | Lalande 21185 | 7.6 | M | 2.55 | 10.6 | 0.006 |
| Arcturus | 0.24 | 18 | K | 22.5 | 130 | Shiloh | -1.6 | A | 2.70 | 1.3 | 31.6 |
| α^1 Centauri | 0.33 | 17 | G | 1.32 | 1.3 | R 11 - 12 4523 | 9.5 | — | 2.88 | 12.2 | 0.0013 |
| Erel | 0.34 | 17 | B | 167.0 | 20,000 | Indes Star | 11.7 | — | 2.94 | 14.4 | 0.0002 |
| Procyon | 0.48 | 15 | F | 3.11 | 6.3 | Cori Z 51 243 | 9.2 | M | 3.15 | 11.7 | 0.008 |
| Achernar | 0.60 | 13 | F | 20.4 | 240 | 7 Ceti | 3.6 | K | 3.17 | 6.1 | 0.363 |
| β^1 Centauri | 0.66 | 11 | B | 27.8 | 340 | Procyon | 0.5 | F | 3.21 | 3.0 | 6.46 |
| Altair | 0.89 | 10 | A | 4.9 | 11 | 7 Frideau | 3.8 | K | 3.23 | 6.3 | 0.32 |
| Regulus | 1.07 | 10 | M | 58.8 | 1,500 | 61 Cygni | 5.6 | K | 3.33 | 8.0 | 0.06 |
| Aldebaran | 1.06 | 9 | K | 17.5 | 112 | Lacaille 9352 | 7.4 | M | 3.42 | 9.7 | 0.013 |
| Spica | 1.11 | 8 | B | 111.0 | 4,100 | Struve 2164 | 8.8 | — | 3.48 | 11.1 | 0.004 |
| Polaris | 1.11 | 8 | K | 9.90 | 32.1 | Greenhill 1,034 | 8.1 | M | 3.55 | 10.4 | 0.007 |
| Antares | 1.22 | 8 | M | 38.5 | 490 | 7 Indi | 4.7 | K | 3.56 | 7.0 | 0.166 |
| Fomalhaut | 1.29 | 7 | A | 7.30 | 16.3 | Kruger 60 | 9.2 | M | 3.89 | 11.3 | 0.003 |
| Deneb | 1.33 | 7 | A | 200.0 | 12,000 | Van Maanen 2 | 12.3 | M | 3.92 | 14.3 | 0.0002 |
| Regulus | 1.34 | 7 | F | 17.2 | 86.7 | Lacaille 8760 | 6.65 | M | 3.98 | 8.6 | 0.034 |
| Arcturus | 1.30 | 6 | L | 125.0 | 3,930 | Altair | 0.9 | A | 4.90 | 2.4 | 20.5 |

The last columns show the R. I. in 1700 and the R. I. in 1700 with the R. I. in 1700.

STAR CLUSTERS AND NEBULÆ

| | | | | |
|-----------|----------|--------------|----------------|--|
| 224 | M 31 | 0 38 +40 50 | Andromeda | Very brilliant oval nebula, visible to naked eye |
| 508 | M 33 | 1 29 +29 38 | Andromeda | A large nebula. |
| 669 & 834 | M 33, 34 | 2 15 +56 45 | Persens | |
| 1952 | M 1 | 5 30 +22 0 | Taurus | |
| 1976 | M 42 | 5 31 - 5 27 | Orion | |
| 2070 | | 5 39 - 69 29 | Orion | |
| 2090 | M 37 | 5 47 +32 30 | Auriga | |
| 2163 | M 25 | 6 4 +24 20 | Centaur | |
| 2632 | M 44 | 8 35 +20 15 | Canis | |
| 3372 | | 20 42 59 16 | Argus | is naked eye |
| 5194 | M 51 | 23 26 +47 35 | Canes Venatici | Great nebula surrounding Argus. |
| 5272 | M 3 | 23 38 +28 45 | Canes Venatici | |
| 6205 | M 13 | 15 30 +36 35 | Herules | |
| 6404 | M 23 | 17 32 - 19 0 | Hydrus | |
| 6543 | M 11, 37 | 17 39 +66 25 | Draco | |
| 6720 | M 27 | 18 51 +32 55 | Lyra | |
| 6853 | M 27 | 19 56 +22 30 | Apulia | |
| 7080 | M 2 | 21 29 - 2 10 | Aquarius | Splendid globular cluster of stars. |
| 7086 | M 15 | 21 26 +22 45 | Pegasus | Magnificent cluster of stars. |

MINIMA OF ALGOL (S PERSEI) IN 1910.

| JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER |
|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|
| 2 15 | 1 10 | 2 2 | 2 16 | 3 10 | 1 2 | 1 13 | 3 4 | 3 17 | 2 9 | 2 9 | 2 9 |
| 6 15 | 4 7 | 4 23 | 5 12 | 6 7 | 2 23 | 4 12 | 6 0 | 6 23 | 5 6 | 5 6 | 5 6 |
| 9 12 | 7 4 | 7 20 | 8 9 | 9 3 | 6 19 | 7 8 | 8 21 | 9 10 | 8 9 | 8 9 | 8 9 |
| 12 9 | 10 0 | 10 17 | 11 6 | 12 0 | 9 15 | 10 5 | 11 18 | 12 7 | 10 23 | 10 23 | 10 23 |
| 15 5 | 12 22 | 13 14 | 14 3 | 14 21 | 12 13 | 13 2 | 14 25 | 15 4 | 13 20 | 13 20 | 13 20 |
| 18 2 | 15 15 | 16 11 | 17 0 | 17 18 | 15 10 | 16 23 | 17 12 | 18 1 | 16 17 | 16 17 | 16 17 |
| 20 23 | 18 15 | 19 7 | 19 20 | 20 14 | 18 7 | 19 19 | 20 8 | 20 22 | 19 24 | 19 24 | 19 24 |
| 23 20 | 21 12 | 22 4 | 22 17 | 23 11 | 21 3 | 22 16 | 23 5 | 23 18 | 22 10 | 22 10 | 22 10 |
| 26 17 | 24 9 | 25 1 | 25 14 | 26 8 | 24 0 | 24 13 | 25 2 | 25 15 | 24 7 | 24 7 | 24 7 |
| 29 12 | 27 6 | 27 22 | 28 11 | 29 5 | 27 21 | 27 10 | 28 23 | 29 12 | 28 4 | 28 4 | 28 4 |
| | | 30 19 | | | 29 18 | 30 7 | 31 20 | | 31 1 | 31 1 | 31 1 |

These are approximate times of the middle of minimum phase.

DOUBLE AND BINARY STARS

The large majority of stars when looked at through a telescope appear as single points of light of different degrees of brightness and perhaps differing slightly in colour. Some however are seen to consist of two points so close together that the duplicity is shown only by telescopic examination and the measurement of the relative position of the components for is a branch of observational astronomy. This duplicity would happen if one star lay in space immediately behind the other, but there are more double stars than would accrue if this were the only reason and it is evident that the greater number of double stars are formed by components actually near together, which it is likely have a gravitational connection. This idea of connection was not held in early days and Sir Wm. Herschel who in 1779 was the first to begin their systematic observation was careful to call these pairs "visible stars" not wishing to imply anything more than nearness though by that date it had already been suggested that the stars seen near together were actually contiguous and formed a physical system. Twenty years later Harvard changes in the relative position of the components of some double stars led Herschel to adopt this idea and he used the word binary as the name for those known to have physical connection. It is clear that limits of distance must be a

general separation between components of less than about 30 seconds double star. As to the low possibility with a large telescope between two stars as second. There are 10 stars between these measured and catalogue vaguely for it is being a certain private of Sir England for example more to the list annually the middle of the distance the Great Bear's nude star distance (1650).

and although it is a 5th magnitude star it has a companion of 10th magnitude 15 minutes distant that can be seen separately by the naked eye but this does not come within the definition. Castor and y Virginis are other bright stars that consist of two components of about the same brightness separated by a few seconds. Sirius and Procyon are very bright stars that each have a very faint star as companion and between these types there are many

other and various combinations.

Other

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SPECTROSCOPIC BINARIES

As mentioned on p. 65 it is possible from certain peculiarities in a star's spectrum, to deduce the speed with which any star is advancing towards or receding from the earth. As a result of their motion around one another the two components of a binary star will be generally respectively advancing towards and receding from the earth at different rates and when both components are bright enough for their spectra to be visible the spectrum of a binary star shows two distinct sets of lines which oscillate about their mean position in periods equal to the

yellow and blue. Following are some examples in the opposite sense. The stars named are all physically connected and have had their orbits computed—the magnitudes of their components are shown by the figures—
 η Cassiopei 4.0 7.6 yellow, purple, 4.5
 γ Andromedæ 3.0 6.0 yellow, blue, 7.0
 γ Ursa minor 4.5 6.0 yellow, purple, 7.0
 γ Procyon 2.2 2.2 yellow, green
 γ Canum Ven. 5.0 5.5 white, blue, 5.0
 γ 10 white yellow

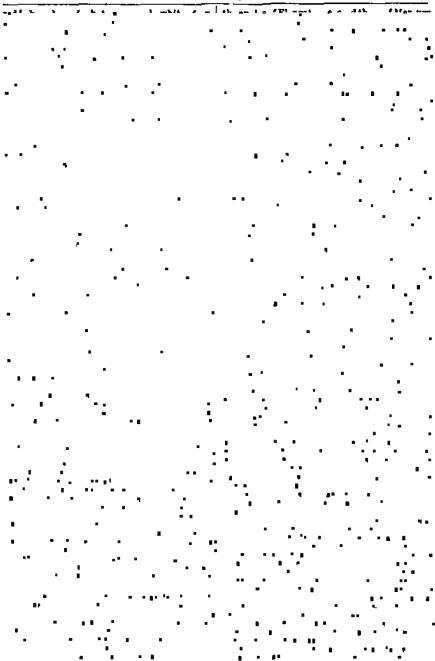
THE Sun is one of the millions of stars that

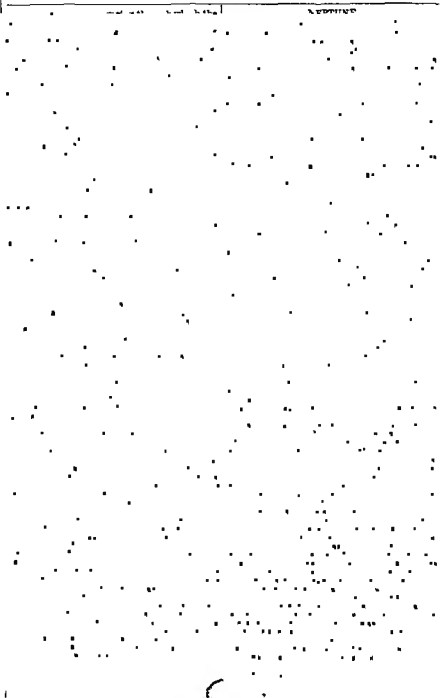
THE SUN

The surface of the Sun seen in a telescope, presents a mottled appearance formed by a darkish background on which small brilliant patches are scattered, the shape of these being such that they have been called alternatively rice-grains or willow leaves. On this surface, or amid the material forming it, black spots appear sporadically and are

| | d | h | Lat | d | h |
|---------|----|---|---------|----|----|
| Equator | 25 | 1 | Lat 15° | 25 | 8 |
| Lat 5° | 25 | 2 | " 20° | 25 | 14 |
| " 10° | 25 | 3 | " 30° | 26 | 6 |

These figures refer to both hemispheres of the Sun. The addition of 2 days gives approximately the period of rotation with respect to the Earth.





A FEW OF THE CHIEF LUNAR FORMATIONS

METEORS

to find
Tt

immense honeycomb

COMETS

Comets that revolve in elliptical orbits round

11th 1892

Right Ascension
R A

Declination
Dec

Name of Shower

| | | |
|---------------|--------|----------------|
| January 2-4 | 230+53 | Q uadrantids. |
| January 25 | 331+56 | ♄ Cepheids |
| Feb 10-13 | 147-11 | ♌ Hydrids |
| Feb 19-Mar 1 | 155+14 | ♌ Leonids |
| March 1-4 | 166+4 | ♌ Leontids |
| 6 March 11-12 | 218+12 | ♄ Bootids |
| 7 March 18-27 | 161+58 | ♄ Ursids |
| 8 April 7-22 | 220-20 | ♌ Virginids |
| 9 April 22-22 | 202+8 | ♌ Virginids |
| | 271+33 | ♌ Lyrids |
| | 328-3 | ♌ Aquarids |
| | 246+29 | ♄ Herculids |
| | 353+39 | ♌ Andromedids |
| | 212+32 | ♄ Coronids |
| | 253-22 | ♌ Scorpilids |
| | 282-26 | ♄ Sagittarids |
| | 228+58 | ♌ Draconids |
| | 245+64 | ♌ Draconids |
| | 343+12 | ♌ Pegazids |
| | 303-10 | ♌ Capricornids |
| | 329-11 | ♄ Aquarids |
| | 45+57 | ♌ Perseids |
| | 291+60 | ♌ Draconids |
| | 262+63 | ♄ Draconids |
| | 61+36 | ♌ Perseids |
| | 348+2 | ♌ Placid |
| | 333+57 | ♄ Cepheids |
| | 314+79 | ♄ Cepheids |
| | 262+55 | ♄ Draconids |
| | 106+52 | ♌ Iyuids |
| | 33+19 | ♌ Arietids |
| | 92+15 | ♌ Orionids |
| | 42+21 | ♌ Arietids |
| | 55+14 | ♌ Taurids |
| | 61+34 | ♌ Perseids |
| | 250+23 | ♌ Leonids |

| NAME. | | | | | Star mag. | Mean distance from Primary Miles | Period of Orbital Revolution d h m |
|------------------|----------------|-----|----|------|--------------|---|---|
| <i>The Earth</i> | | | | | | | |
| Luna | 238 840 | 27 | 7 | 43 | | | |
| <i>Mars</i> | | | | | | | |
| Phobos | 5 850 | 0 | 7 | 39 | | | |
| Deimos | 14 650 | 1 | 6 | 18 | | | |
| <i>Jupiter</i> | | | | | | | |
| I Unnamed | 112 500 | 0 | 15 | 57½ | | | |
| II Io | 261 000 | 1 | 18 | 27 2 | | | |
| III Europa | 415 000 | 3 | 13 | 13½ | | | |
| IV Ganymede | 664 000 | 7 | 3 | 42½ | | | |
| V Callisto | 1 167 000 | 16 | 10 | 32 | | | |
| VI Unnamed | 7 110 000 | 250 | 14 | 40 | | | |
| VII Unnamed I | 7 390 000 | 260 | 1 | 24 | | | |
| VIII Unnamed | 14 940 000 | 738 | 21 | 35 | | | |
| IX. Unnamed I | 18½ 14 940 000 | 745 | 0 | 0 | | | |
| <i>Saturn</i> | | | | | | | |
| | 117 000 | 0 | 22 | 37 | | | |
| | 152 000 | 1 | 8 | 53 | | | |
| | 188 000 | 1 | 21 | 18 | | | |
| | 238 000 | 2 | 17 | 41 | | | |
| | 333 000 | 4 | 12 | 25 | | | |
| | 771 000 | 15 | 22 | 41 | | | |
| | 906 000 | 20 | 20 | 24 | | | |
| | 934 000 | 21 | 6 | 39 | | | |
| | 2 500 000 | 77 | 7 | 54 | | | |
| | 8 000 000 | 546 | 12 | 0 | | | |
| <i>Uranus</i> | | | | | | | |
| | 129 000 | 2 | 12 | 29 | | | |
| | 167 000 | 4 | 3 | 26 | | | |
| | 273 000 | 8 | 16 | 56 | | | |
| | 365 000 | 13 | 11 | 7 | | | |
| <i>Neptune</i> | | | | | | | |
| | 227 500 | 5 | 21 | 7 | | | |

APPARENT DIMENSION OF SATURN'S RING, 1979

[illegible]

ILLUMINATED PORTIONS OF THE DISCS OF MERCURY AND VENUS 1929

| Date | Mer- cury | Venus | Date | Mer- cury | Venus | Date | Mer- cury | Venus | Date | Mer- cury | Venus |
|------|--------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|-------|
|------|--------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|-------|

Greenwich Mean Time
 START from abstract

First Point of Aries

+ 24^h

| | | | |
|--------------------------------|----|----|----|
| | 12 | 34 | 03 |
| Interval of Mean T from ad 811 | 6 | 40 | 58 |
| Acceleration from p 57 (ad) .. | 0 | 7 | 6 |
| Corresponding Sidereal Time .. | 6 | 48 | 4 |

Summer Time

In the year 1880 it was enacted by statute

Corsica, St Thomas and Princess
Mary Coast, Bahamas,
o. (Gold Coast) (Jan - Aug)
nd

Madaira French Guinea
Portuguese Guinea, Li
Sierra Leone Ascension Is.,
Is, Mauritania,
Cape Verde Is., Fernando
Noboa Is (Brazil).
Brazil.

countries is given below In the United
States and Canada five standard times are used

Atlantic

East of 68° long, Nova
Scotia Prince Edward Is, Port
Rico Trinidad, the Leeward Is.
Grenada, Guadeloupe, Tobago
Martinique St. Lucia, St. Vin
cent St. Pierre Maricao (en
tral Brazil), the Argentine
French Guiana.

4 1/2 S
5 " S

Venezuela.
Canada from 68th to 80th meridian
Eastern States of U S A Jamaica
Bahama Is, Cuba Haiti Peru
Panama, Western Brazil, Chile
Columbia

Eastern

6 " S
Central

Central parts of Canada and U S A
with Florida, Costa Rica Salva
dor

7
8

9 " S
10 " S

Yukon
Low Archipelago, Marquesas An
tisl and Society Is Alaska
Hawaiian or Sandwich Is
Aleutian Is, East Samoa (U S A)
Western Samoa

In the Tonga or Fide No Yolo is the

Fast on Greenwich Time

12 hrs F High Islands Whangell Is
11 1/2 " F New Zealand Chatham I
11 " F New Caledonia New Hebrides
Caroline Is (east) Santa Cruz
Marshall Is Nauru
10 " F Victoria New South Wales Queens
land Tasmania New Guinea
Lord Howe Is Caroline Is west
of 154° E Marianas Is Guam
9 1/2 " F South Australia Northern Terri
tory of Australia part of N S W
9 " F Japan Korea Yap (Caroline Is)
8 " F Port Arthur, East China Hong
Kong Philippine Is, Formosa an
Pescadores Is British North
Borneo and Labuan, Macao,
Timor, West Australia
7 1/2 " F Sarawak.
7 " F

6 1/2 "

5 1/2 "

5 "

4 "

3 "

2 1/2 "

2 "

hr

Greenwich Time Great Britain, Ireland, France,
Channel Is, Belgium, Luxemburg, Spain,
Portugal, France, Gibraltar, Algeria, Madeira Is,

(4) " 15 1/2° S, long 173 1/2° W
(5) " 5° S long 180°
(6) " 48° N long 180°
(7) " 35 1/2° N, long 170° E.
(8) " 65° N, long 160° W

* Summer Time is 1 hr " fast " time during the period
in which its use is ordained. (See pp 24 26 and 27)

Then through the centre of Bering Strait to
point lat 70° N, long 180°.

| | 3 | Fast of Gedaliah | 7 | | 5 |
|--------|----|-----------------------------------|-----|-----------|----|
| | 10 | Yom Kippur (Day of Atonement) | 14 | | 4 |
| | 25 | Feast of Tabernacles | 29 | Shaaban | 3 |
| | 26 | 2nd day | 30 | | 4 |
| | 27 | Hoshana Rabba | 1 | | 5 |
| | 28 | Feast of Solemn Assembly | 2 | | 6 |
| | 29 | Rejoicing of the Law | 3 | | 7 |
| berhad | 1 | New Moon | Nov | | 8 |
| lev | 1 | New Moon | Dec | | 9 |
| | 25 | Hanukah, Dedication of the Temple | 27 | Muharram | 29 |
| | | | | Saphar | 26 |
| | | | | Rabia I | 27 |
| | | | | Rabia II | 28 |
| | | | | Jomada I | 29 |
| | | | | Jomada II | 30 |
| | | | | Rajab | 31 |
| | | | | Shaaban | 1 |
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THE *Superficial Area* of the Earth is estimated to be 196 550 000 square miles 0

APPENDIX B. THE

TABLE

OF THE

Area and Population of the World by Continents.

| Continent | Form of Government | Area in Miles | Population | Per Sq Mile | Capital | Population of Capital |
|------------------------------------|--------------------|---------------|-------------|-------------|-----------------|-----------------------|
| Europe | | | | | | |
| Albania | Kingdom | 20 000 | 1 000 000 | 50 | Tirana | 14 000 |
| Andorra | Republic | 175 | 6 000 | 34 | Andorra Vella | 600 |
| Austria | Republic | 31 760 | 6 600 000 | 209 | Vienna | 1 843 000 |
| Belgium | Kingdom | 11 400 | 7 600 000 | 663 | Brussels | 803 000 |
| Bulgaria | Kingdom | 40 000 | 5 500 000 | 137 | Sofia | 213 000 |
| Czechoslovakia | Republic | 54 600 | 14 300 000 | 261 | Prague | 677 000 |
| Denmark | Kingdom | 15 000 | 3 435 000 | 229 | Copenhagen | 731 000 |
| Estonia | Republic | 18 000 | 1,116 000 | 62 | Tallinn (Reval) | 125 000 |
| Finland | Republic | 150 000 | 3 500 000 | 23 | Helsinki | 212 000 |
| France | Republic | 213 000 | 40 000 000 | 187 | Paris | 3 000 000 |
| Germany | Republic | 182 200 | 63 000 000 | 345 | Berlin | 4 000 000 |
| Great Britain and Northern Ireland | Kingdom | 95 030 | 44 500 000 | 468 | London | 8 000 000 |
| Greece | Republic | 49 000 | 7 000 000 | 167 | Athens | 700 000 |
| Hungary | Independent State | 36 180 | 8 000 000 | 221 | Budapest | 1,200 000 |
| Iceland | Kingdom | 41 000 | 95 000 | 2 | Reykjavik | 20 000 |
| Irish Free State | Domination | 26 600 | 3 000 000 | 112 | Dublin | 200 000 |
| Italy | Kingdom | 120 000 | 42 000 000 | 349 | Rome | 768 000 |
| Latvia | Republic | 41 000 | 2 000 000 | 48 | Riga | 338 000 |
| Liechtenstein | Principality | 60 | 12 000 | 200 | Vaduz | 1 400 |
| Lithuania | Republic | 20 000 | 2 000 000 | 100 | Kovno | 95 000 |
| Luxemburg | Grand Duchy | 1 000 | 270 000 | 270 | Luxemburg | 46 000 |
| Monaco | Principality | 4 | 23 000 | 5 750 | Monaco | 2 250 |
| Netherlands | Kingdom | 12 760 | 7 527 000 | 581 | The Hague | 398 000 |
| Norway | Kingdom | 124 000 | 2 789 000 | 21 | Oslo | 251 300 |
| Poland | Republic | 150 000 | 27 000 000 | 180 | Warsaw | 1 000 000 |
| Portugal | Republic | 35 500 | 6 400 000 | 183 | Lisbon | 486 000 |
| Rumania | Kingdom | 160 000 | 18 000 000 | 112 | Bucharest | 800 000 |
| Russia in Europe | Republic | 1 492 000 | 108 100 000 | 61 | Moscow | 1 600 000 |
| San Marino | Republic | 38 | 13 000 | 339 | San Marino | 2 000 |
| Spain | Kingdom | 196 700 | 21 763 000 | 110 | Madrid | 750 000 |
| Sweden | Kingdom | 173 000 | 6 074 000 | 34 | Stockholm | 453 000 |
| Switzerland | Republic | 15 950 | 4 000 000 | 250 | Berne | 105 000 |
| Turkey in Europe | Republic | 20 000 | 2 000 000 | 100 | Istanbul | 1 000 000 |
| African | State | 109 111 000 | 450 | 4 | Nairobi City | 100 000 |
| Yugoslavia | Kingdom | 248 050 | 13 000 000 | 53 | Belgrade | 240 000 |

THE STATES OF GERMANY

| State and Capital | Sq Miles | Population |
|------------------------------------|----------|------------|
| Alsace (Dusseldorf) | 900 | 331 000 |
| Baden (Karlsruhe) | 5 800 | 2 210 000 |
| Bavaria (Munich) | 29 500 | 7 150 000 |
| Brandenburg (Berlin) | 1 420 | 500 000 |
| Hesse (Darmstadt) | 1 000 | 1 300 000 |
| Lippe (Detmold) | 470 | 154 000 |
| Mecklenburg-Schwerin (Schwerin) | 5 100 | 660 000 |
| Mecklenburg-Strelitz (Neustrelitz) | 1 130 | 107 000 |
| Oldenburg (Oldenburg) | 2 500 | 530 000 |
| Prussia (Berlin) | 113 740 | 37 000 000 |
| Saxony (Dresden) | 5 900 | 4 700 000 |
| Schaumburg-Lippe (Bückeburg) | 130 | 47 000 |
| Thuringia (Weimar) | 4 500 | 1 500 000 |
| Württemberg (Stuttgart) | 7 500 | 1 580 000 |
| Hanse Towns | | |
| Hamburg | 170 | 1 100 000 |
| Bremen | 99 | 331 000 |
| Lübeck | 115 | 121 000 |

THE RUSSIAN UNION

| Allied Republic | Sq Miles | Population (Dec 1921) |
|----------------------------|-----------|-----------------------|
| Soviet Russia (R.S.F.S.R.) | 7 238 513 | 94 865 174 |
| Ukraine | 183 655 | 18 397 000 |
| Transcaucasia | 24 105 | 5 930 100 |
| White Russia | 23 022 | 4 151 076 |
| Turkmenistan | 159 845 | 1 100 000 |
| Tajikistan | 121 636 | 4 400 000 |
| Mongolia | 1 360 000 | 3 000 000 |
| Total | 9 251 796 | 121 851 250 |

CZECHOSLOVAKIA

| 1917 | Sq Miles | Population |
|--|----------|------------|
| Bohemia | 20 230 | 6 781 936 |
| Moravia | 8 642 | 2 633 087 |
| Slovakia | 1 787 | 2 026 824 |
| Silesia | 18 092 | 650 441 |
| Poland | 4 966 | 596 601 |
| Total (1921) | 54 577 | 13 588 890 |
| The estimated population on Jan 1, 1927 was 14 300 000 | | |

Area and Population of the World by Continents. 85

| Country | Form of Government | Sq Miles | Population | Per Sq Mile | Capital | Population of Capital |
|-------------------------|---------------------|-----------|-------------|-------------|----------------|-----------------------|
| Asia. | | | | | | |
| Afghanistan | Kingdom | 245 000 | 6 380 000 | 26 | Kabul | 100 000 |
| Alexandretta | Republic | | | | Alexandretta | 15 000 |
| Azerbaijan | Principality | | | | Baku | |
| Bahrein | Emirate | | 115 000 | | Manama | |
| Bhutan | Kingdom | 30 000 | 250 000 | 12 | Thimphu | |
| Ceylon | British | 25 500 | 4 500 000 | 180 | Colombo | 250 000 |
| China | Republic | 2 900 000 | 445 000 000 | 97 | Peking | 1 000 000 |
| India | Empire | 1 805 000 | 320 000 000 | 155 | Delhi | 304 000 |
| Iraq | Kingdom | 150 000 | 3 000 000 | 20 | Baghdad | 170 000 |
| Japan | Empire | 260 800 | 24 000 000 | 321 | Tokyo | 2 000 000 |
| Kuwait | Principality | | | | Kuwait | 50 000 |
| Malaya | British | 31 000 | 3 500 000 | 113 | Singapore | 360 000 |
| Saudi Arabia | Kingdom | 1 000 000 | 1 500 000 | 2 | Riyadh | 20 000 |
| Nepal | Kingdom | 54 000 | 5 600 000 | 100 | Kathmandu | 80 000 |
| Oman | Sultanate | 82 000 | 550 000 | 6 | Muscat | 22 000 |
| Palestine | Mandate | | 1 000 000 | | Jerusalem | 63 000 |
| Persia | Kingdom | 630 000 | 10 000 000 | 16 | Tehran | 210 000 |
| Russia in Asia | | 7 760 000 | 33 750 000 | 4 | Sevastopol | |
| Siam | Kingdom | 195 000 | 9 513 000 | 49 | Bangkok | 450 000 |
| Syria and Lebanon | Mandate | 105 000 | 3 600 000 | 4 | Beirut | 150 000 |
| Turkey in Asia | Republic | 400 000 | 12 000 000 | 30 | Ankara | 75 000 |
| Tibet | Republic | 750 000 | 3 000 000 | 4 | Lhasa | 30 000 |
| Yemen | Imamate | 74 000 | 3 500 000 | 48 | Sana'a | 40 000 |
| Africa. | | | | | | |
| Algeria | Kingdom | 350 000 | 11 000 000 | 35 | Algiers | 50 000 |
| Egypt | Kingdom | 353 200 | 14 000 000 | 38 | Cairo | 1 000 000 |
| Liberia | Republic | 48 000 | 2 000 000 | 40 | Monrovia | 8 000 |
| Morocco | | 314 000 | 5 000 000 | 15 | Rabat | |
| Southern Rhodesia | Dominion | 150 300 | 1 000 000 | 6 | Salisbury | 7 500 |
| North Rhodesia | Dominion | 288 000 | 1 250 000 | 4 | Livingstone | |
| Sudan | British | 1 000 000 | 6 000 000 | 6 | Khartoum | 31 000 |
| Union of South Africa | Dominion | 800 000 | 8 000 000 | 10 | Pretoria | 83 000 |
| | | | | | Cape Town | 225 000 |
| North America. | | | | | | |
| Canada | Dominion | 3 547 230 | 9 000 000 | 2 | Ottawa | 108 000 |
| Mexico | Republic | 769 000 | 16 000 000 | 21 | Mexico | 615 000 |
| Newfoundland | Province | 162 750 | 270 000 | 2 | St John's | 40 000 |
| United States | Federal Republic | 3 027 000 | 106 000 000 | 35 | Washington | 440 000 |
| Alaska | Territory | 591 000 | 55 000 | | Juneau | |
| Central America. | | | | | | |
| British Honduras | Colony | 8 600 | 46 000 | 5 | Belize | 19 000 |
| Costa Rica | Republic | 21 000 | 513 000 | 23 | San José | 55 000 |
| Guatemala | Republic | 43 500 | 1 600 000 | 37 | Guatemala | 110 000 |
| Honduras | Republic | 44 275 | 674 000 | 13 | Tegucigalpa | 40 000 |
| Nicaragua | Republic | 51 660 | 640 000 | 12 | Managua | 28 000 |
| Panama | Republic | 31 890 | 442 000 | 13 | Panama | 60 000 |
| Salvador | Republic | 13 180 | 1 634 000 | 126 | San Salvador | 50 000 |
| West Indies. | | | | | | |
| British West Indies | British West Indies | 12 300 | 1 740 000 | | | |
| Cuba | Republic | 44 180 | 3 400 000 | 80 | Havana | 535 000 |
| Dominican Republic | Republic | 19 300 | 900 000 | 46 | Santo Domingo | 31 000 |
| Haiti | Republic | 10 200 | 1 300 000 | 129 | Port au Prince | 125 000 |
| South America. | | | | | | |
| Argentina | | | 10 000 000 | 8 | Buenos Aires | 1 860 000 |
| | | | 2 800 000 | 4 | La Paz | 111 000 |
| | | | 30 650 000 | 9 | Rio de Janeiro | 1 100 000 |
| | | | 307 000 | 3 | Georgetown | 57 000 |
| | | | 4 000 000 | 17 | Santiago | |
| | | | 6 000 000 | 12 | Bogotá | |
| | | | 8 000 000 | 7 | Quito | |
| | | | 700 000 | 11 | Asunción | |
| | | | 5 500 000 | 13 | Lima | |
| | | | 1 780 000 | 13 | Montevideo | |
| | | | 3 047 000 | 8 | Caracas | |
| Oceania. | | | | | | |
| Australia | Commonwealth | 3 000 000 | 6 000 000 | 2 | Canberra | |
| New Zealand | Dominion | 105 000 | 1 461 000 | 13 | Wellington | |

Area and Population of the World by Continents.

| COUNTRY | Form of Government | Sq. Miles | Population | Per Sq. Mile | Capital | Population of Capital |
|------------------------------------|--------------------|-----------|-------------|--------------|-----------------|-----------------------|
| Europe | | | | | | |
| Albania | Kingdom | 20 000 | 1 000 000 | 50 | Tirana | 14 000 |
| Andorra | Republic | 175 | 6 000 | 34 | Andorra Vella | 600 |
| Austria | Republic | 31 700 | 6 600 000 | 192 | Vienna | 1,842 000 |
| Belgium | Kingdom | 11 400 | 7 600 000 | 663 | Brussels | 802 000 |
| Bulgaria | Kingdom | 40 000 | 5 500 000 | 137 | Sofia | 213 000 |
| Czechoslovakia | Republic | 54 600 | 14 300 000 | 261 | Prague | 677 000 |
| Denmark | Kingdom | 15 000 | 3 435 000 | 229 | Copenhagen | 731 000 |
| Estonia | Republic | 18 000 | 1 116 000 | 62 | Tallinn (Reval) | 125 000 |
| Finland | Republic | 150 000 | 3 500 000 | 23 | Helsinki | 212 000 |
| France | Republic | 213 000 | 40 000 000 | 187 | Paris | 3 000 000 |
| Germany | Republic | 182 200 | 63 000 000 | 348 | Berlin | 4 000 000 |
| Great Britain and Northern Ireland | Kingdom | 95 030 | 44 500 000 | 468 | London | 8 000 000 |
| Greece | Republic | 49 000 | 7 000 000 | 167 | Athens | 700 000 |
| Hungary | Independent State | 36 180 | 8 000 000 | 221 | Budapest | 1 200 000 |
| Iceland | Kingdom | 41 000 | 95 000 | 2 | Reykjavik | 20 000 |
| Irish Free State | Dom. on | 26 600 | 3 000 000 | 112 | Dublin | 761 000 |
| Italy | Kingdom | 120 000 | 42 000 000 | 349 | Rome | 338 000 |
| Latvia | Republic | 41 000 | 2 000 000 | 48 | Riga | 1,400 |
| Liechtenstein | Principality | 60 | 12 000 | 200 | Vaduz | 95 000 |
| Lithuania | Republic | 20 000 | 2 000 000 | 100 | Kovno | 46 000 |
| Luxemburg | Grand Duchy | 1 000 | 270 000 | 270 | Luxemburg | 2 250 |
| Monaco | Principality | 4 | 23 000 | 5 750 | Monaco | 398 000 |
| Netherlands | Kingdom | 12 760 | 7 527 000 | 581 | The Hague | 251 300 |
| Norway | Kingdom | 124 000 | 2 789 000 | 22 | Oslo | 1 000 000 |
| Poland | Republic | 150 000 | 27 000 000 | 180 | Warsaw | 486 000 |
| Portugal | Republic | 35 500 | 6 400 000 | 183 | Lisbon | 800 000 |
| Rumania | Kingdom | | 18 000 000 | 112 | Bucharest | 1 600 000 |
| | | | 108 100 000 | 61 | Moscow | 2 000 |
| | | | 13 000 | 332 | Saint Martin | 750 000 |
| | | | 21 763 000 | 170 | Madrid | 453 000 |
| | | | 6 074 000 | 34 | Stockholm | 105 000 |
| | | | 4 000 000 | 250 | Batavia | |
| | | | 2 000 000 | 200 | Singapore | |
| | | | 450 | | Nation City | |
| | | | 13 000 000 | 53 | Belgrade | 240 000 |

THE STATES OF GERMANY

| STATE AND CAPITAL | Sq. Miles | Population |
|------------------------------------|-----------|------------|
| Austria (Vienna) | 900 | 332 000 |
| Baden (Karlsruhe) | 5 800 | 2 210 000 |
| Bavaria (Munich) | 29 500 | 7 150 000 |
| Brunswick (Brunswick) | 1 420 | 500 000 |
| Hesse (Darmstadt) | 3 000 | 1 300 000 |
| Lippe (Detmold) | 470 | 154 000 |
| Mecklenburg-Schwerin (Schwerin) | 5 100 | 660 000 |
| Mecklenburg-Strelitz (Neustrelitz) | 1 230 | 107 000 |
| Oldenburg (Oldenburg) | 2 500 | 520 000 |
| Prussia (Berlin) | 113 740 | 37 000 000 |
| Saxony (Dresden) | 5 900 | 4 700 000 |
| Schleswig-Holstein (Kiel) | 130 | 47 000 |
| Thuringia (Weimar) | 4 500 | 1 500 000 |
| Württemberg (Stuttgart) | 7 500 | 2 520 000 |
| Hanse Towns | | |
| Hamburg | 170 | 1 100 000 |
| Bremen | 90 | 332 000 |
| Lubeck | 115 | 121 000 |

THE RUSSIAN UNION

| ALLIED REPUBLICS | Sq. Miles | Population Dec. 1913 |
|--------------------------------|-----------|----------------------|
| Soviet Russia (R. S. F. S. R.) | 7 238 533 | 94 862 174 |
| Ukraine | 183 655 | 28 397 000 |
| Transcaucasia | 74 805 | 5 938 100 |
| White Russia | 23 022 | 4 152 076 |
| Turkmenistan | 159 845 | 1 000 000 |
| Kazakhstan | 212 636 | 4 400 000 |
| Mongolia | 1 360 000 | 2 000 000 |
| Total | 9 231 796 | 141,851 250 |

CZECHOSLOVAKIA

| DEPT. | Sq. Miles | Population |
|--------------|-----------|------------|
| Bohemia | 20 230 | 6 781 936 |
| Moravia | 8 642 | 2 633 027 |
| Silesia | 1 727 | 2 926 824 |
| Galicia | 18 992 | 650 442 |
| Lithuania | 4 986 | 596 601 |
| Total (1913) | 54 577 | 13 588 830 |

The estimated population on Jan. 1, 1927 was 24 300 000

| Coverage | Form of Government | Sq. Miles | Population | Per Sq. Mile | Capital | Population of Capital |
|-------------------------|--------------------|-----------|-------------|--------------|----------------|-----------------------|
| Asia. | | | | | | |
| Afghanistan | Kingdom | 245 000 | 6 380 000 | 26 | Kabul | 100 000 |
| Alexandretta | Republic | | | | Alexandretta | 15 000 |
| Arabia | Principality | | | | Mecca | |
| Bahrein | Emirate | | 115 000 | | Manama | |
| Bhutan | Kingdom | 30 000 | 250 000 | 12 | Punakha | |
| Ceylon | British | 25 500 | 4 500 000 | 180 | Colombo | 250 000 |
| China | Republic | 2 900 000 | 445 000 000 | 97 | Nanking | 1 000 000 |
| India | Empire | 1 805 000 | 320 000 000 | 155 | Delhi | 304 000 |
| Iraq | Kingdom | 150 000 | 3 000 000 | 20 | Baghdad | 170 000 |
| Japan | Empire | 200 000 | 84 000 000 | 321 | Tokyo | 2 000 000 |
| Kuwait | Principality | | | | Kuwait | 50 000 |
| Malaya | British | 31 000 | 3 500 000 | 113 | Singapore | 350 000 |
| Najd and Hejaz | Kingdom | 1 000 000 | 1 500 000 | 2 | Yafa | 20 000 |
| Nepal | Kingdom | 54 000 | 5 600 000 | 100 | Kathmandu | 80 000 |
| Oman | Sultanate | 82 000 | 550 000 | 6 | Muscat | 22 000 |
| Palestine | Mandate | | 1 000 000 | | Jerusalem | 61 000 |
| Persia | Kingdom | 630 000 | 10 000 000 | 16 | Tehran | 210 000 |
| Prussia in Asia | Republic | 7 760 000 | 33 750 000 | 4 | See Europe | |
| Siam | Kingdom | 195 000 | 9 513 000 | 49 | Bangkok | 450 000 |
| Syria and Lebanon | Mandate | 105 000 | 3 600 000 | | Beirut | 150 000 |
| Turkey in Asia | Republic | 400 000 | 12 000 000 | 30 | Angora | 75 000 |
| Tibet | Republic | 750 000 | 3 000 000 | 4 | Lhasa | 30 000 |
| Yemen | Imamate | 74 000 | 3 500 000 | 48 | Sana'a | 40 000 |
| Africa. | | | | | | |
| Abyssinia | Kingdom | 350 000 | 11 000 000 | 35 | Addis Ababa | 50 000 |
| Egypt | Kingdom | 363 000 | 14 000 000 | 38 | Cairo | 1 000 000 |
| Liberia | Republic | 48 000 | 2 000 000 | 40 | Monrovia | 8 000 |
| Morocco | | 314 000 | 5 000 000 | 15 | | |
| South Africa | Dominion | 150 300 | 1 000 000 | 6 | Salisbury | 7 500 |
| North Africa | Dominion | 288 000 | 1 250 000 | 4 | Livingstone | |
| Sudan | British | 1 000 000 | 6 000 000 | 6 | Khartoum | 31 000 |
| Union of South Africa | Dominion | 800 000 | 8 000 000 | 10 | Pretoria | 81 000 |
| | | | | | Cape Town | 215 000 |
| North America. | | | | | | |
| Canada | Dominion | 3 547 230 | 9 000 000 | 2 | Ottawa | 108 000 |
| Mexico | Republic | 759 000 | 16 000 000 | 21 | Mexico | 615 000 |
| Newfoundland | Dominion | 162 750 | 270 000 | 2 | St. John's | 40 000 |
| United States | Republic | 3 027 000 | 106 000 000 | 35 | Washington | 440 000 |
| Alaska | Territory | 593 000 | 55 000 | | Juneau | |
| Central America. | | | | | | |
| British Honduras | Colony | 8 500 | 46 000 | 5 | Belize | 19 000 |
| Costa Rica | Republic | 23 000 | 532 000 | 23 | San José | 55 000 |
| Guatemala | Republic | 42 500 | 1 600 000 | 37 | Guatemala | 116 000 |
| Honduras | Republic | 44 275 | 674 000 | 15 | Tegucigalpa | 40 000 |
| Nicaragua | Republic | 51 600 | 640 000 | 12 | Managua | 28 000 |
| Panama | Republic | 31 800 | 442 000 | 13 | Panama | 60 000 |
| Salvador | Republic | 13 180 | 1 634 000 | 126 | San Salvador | 50 000 |
| West Indies. | | | | | | |
| British West Indies | British | 12 300 | 1 740 000 | | Havana | 530 000 |
| Cuba | Republic | 44 180 | 3 400 000 | 80 | | |
| Dominican Republic | | | 900 000 | 46 | Santo Domingo | 31 000 |
| | | | 2 300 000 | 229 | Port au Prince | 125 000 |
| | | | 10 000 000 | 8 | Buenos Aires | 1 800 000 |
| | | | 2 800 000 | 4 | La Paz | 111 000 |
| | | | 30 650 000 | 9 | Rio de Janeiro | 1 160 000 |
| | | | 307 000 | 3 | Georgetown | 57 000 |
| | | | 4 000 000 | 17 | Santiago | 550 000 |
| | | | 6 000 000 | 12 | Bogotá | 100 000 |
| | | | 2 000 000 | 7 | Quito | 80 |
| | | | 700 000 | 11 | Araucario | |
| | | | 5 500 000 | 23 | Lima | |
| | | | 1 700 000 | 23 | Montevideo | |
| | | | 3 027 000 | 8 | Caracas | |
| Oceania. | | | | | | |
| Australia | Commonwealth | 3 000 000 | 6 000 000 | 2 | Canberra | |
| New Zealand | Dominion | 105 000 | 1 461 000 | 13 | Wellington | |

| | | ST. PAUL | | ST. PAUL | |
|--------------------------|--------|------------|------------|------------|------------|
| | | Tons | | Tons | |
| (a) Majestic | | 4 851 000 | 56 840 00 | | |
| (a) Leviathan | | 3 558 000 | | | |
| Berengaria | | 24 152 000 | | | |
| Bremen (Ge) | | 3 826 177 | 79 733 00 | | |
| Olympic (Br) | | 1 913 000 | 40 474 00 | | |
| Empire (Br) | | | 90 956 00 | | |
| Aquitania (Br) | | | 96 262 00 | | |
| De de Fran | | 2 650 040 | 21 427 10 | | |
| Paris (Fren) | | 7 505 000 | | | |
| Homeria (B) | | 8 835 964 | | | |
| Augusta (I) | | 9 011 057 | 101 707 00 | | |
| Roma (Ital) | | 1 796 000 | 87 506 00 | | |
| Columbus (I) | | 1 823 000 | 38 470 00 | | |
| Mauretania | | 19 783 000 | | | |
| Statendam | | 14 922 238 | 167 613 30 | | |
| Cap Arcona | | 4 338 000 | 115 083 10 | | |
| Belgenland | | 5 182 000 | 100 668 00 | | |
| Britannia (C) | | 1 523 867 | 27 123 90 | | |
| Conte Gran | | 12 773 000 | 579 680 00 | | |
| Empress of Scot & U.S.A. | 25 120 | 8 112 | 11 520 | 22 113 000 | 19 247 000 |
| Sutaria (Ital) | 25 000 | 599 X | 79 X 46 | 3 464 000 | 3 055 000 |
| Vulcania (Ital) | 25 000 | 599 X | 79 X 46 | 11 575 000 | 11 269 000 |
| Adriatic (Brit) | 24 563 | 709 X | 75 X 52 | 6 439 000 | 6 473 000 |
| Conte B. Ancamaro (Ital) | 24 416 | 650 X | 76 X 27 | 2 898 000 | 1 961 000 |
| Dulio (Ital) | 24 281 | 602 X | 76 X 46 | 6 543 000 | 7 919 000 |
| Rotterdam (Neth) | 24 149 | 650 X | 77 X 43 | 5 129 000 | 4 535 000 |
| | | | | 21 327 000 | 254 798 00 |
| | | | | 1 505 000 | 68 140 00 |
| | | | | 1 337 386 | 50 907 50 |
| | | | | 3 031 000 | 32 657 80 |
| | | | | 24 689 000 | |
| | | | | 2 365 000 | 68 870 00 |
| | | | | 7 006 000 | 122 000 00 |
| | | | | 6 612 000 | 101 686 20 |
| | | | | 10 583 000 | 93 095 20 |
| | | | | | 78 910 00 |
| | | | | | 30 302 00 |
| | | | | | 3 359 000 |
| | | | | | 156 000 00 |

RE OF THE WORLD

These are generally enumerated as follows—

- The Pyramids
- The Hanging Gardens of Babylon
- The Tomb of Mausolus
- The Temple of Diana at Ephesus
- The Colossus of Rhodes
- The Statue of Jupiter by Phidias
- The Pharos (lighthouse) of Alexandria

LANGUAGES OF THE WORLD
(Mother Tongues)

| Language | People |
|------------|-------------|
| English | 180 000 000 |
| French | 140 000 000 |
| German | 80 000 000 |
| Spanish | 70 000 000 |
| Italian | 50 000 000 |
| Portuguese | 25 000 000 |

GREAT SHIP CANALS OF THE WORLD

| Canal | Length, feet | Depth, feet | Width, feet | Cost |
|------------------------------|--------------|-------------|-------------|------------|
| Amsterdam (Netherlands) | 1876 | 16 | 23 | £2 600 000 |
| Corinth (Greece) | 1893 | 4 | 26 25 | 1 000 000 |
| Elbe and Trave (Germany) | 1900 | 41 | 10 | 1 270 000 |
| Gota (Sweden) | 1832 | 22 5 | 10 | 770 000 |
| Kiel (Germany) | 1895 | 61 | 45 | 19 000 000 |
| Kronstadt-Petrograd (Russia) | 1890 | 16 | 20 50 | 2 000 000 |
| Manchester (England) | 1894 | 35 5 | 26 | 15 500 000 |
| Panama (U.S.A.) | 1914 | 50 5 | 45 | 75 000 000 |
| Sainte Marie (U.S.A.) | 1895 | 1 6 | 22 | 2 000 000 |
| Sainte Marie (Canada) | 1895 | 1 11 | 20 25 | 143 |
| Suez (Egypt) | 1869 | 100 | 30 | 147 |
| Welland (Canada) | 1827 | 26 75 | 25 | 200 |

* Reconstructed 1915

† Reconstructed 1914

‡ Reconstructed 1909

§ 11

TEMPERATURE AND RAINFALL RECORDS

GENERAL The maximum temperature on the 24th of the month in the shade at 4 feet above the ground is 53° Fahr or 55° below freezing point at 10 p.m. on Dec 4 1890

TEMPERATURE

RAINFALL

| Year | HOTTEST AND COLDEST DAYS (as recorded at Greenwich Observatory) | | | | BRITISH ISLES | | | LONDON (Can den 4 1890) | | |
|------|--|---------|------|------|----------------------------------|----------|--------------------|----------------------------|---------------------------------|--------------------------|
| | Wade | Max | Min | Year | Max in 24 hours and on at 9 a.m. | | | Total for the year | No of Rain days or and in wards | Total in rain in 1000 ft |
| | T m | Date | Temp | Year | Ant | Date | Place | Inch | | |
| 1896 | 87.2 | July 26 | 9.5 | 1896 | 5.71 | Aug 25 | St. Peter's Church | 23.97 | 268 | 456 |
| 1897 | 84.3 | Aug 3 | 9.8 | 1897 | 6.15 | Jan 26 | St. Peter's Church | 24.26 | 163 | 440 |
| 1898 | 82.7 | Sept 25 | 20.4 | 1898 | 4.86 | Oct 15 | St. Peter's Church | 23.01 | 235 | 419 |
| 1899 | 84.0 | Oct 3 | 22.2 | 1899 | 4.80 | Oct 29 | St. Peter's Church | 23.87 | 157 | 504 |
| 1900 | 80.8 | Aug 12 | 23.6 | 1900 | 6.46 | Feb 2 | St. Peter's Church | 24.75 | 190 | 577 |
| 1901 | 80.2 | Sept 20 | 20.3 | 1901 | 4.53 | Aug 20 | St. Peter's Church | 25.36 | 186 | 404 |
| 1902 | 100.4 | Aug 9 | 21.0 | 1902 | 7.28 | Oct 29 | St. Peter's Church | 24.79 | 155 | 473 |
| 1903 | 90.4 | July 12 | 20.2 | 1903 | 7.31 | Aug 26 | St. Peter's Church | 27.22 | 180 | 516 |
| 1904 | 87.2 | Oct 27 | 24.4 | 1904 | 6.06 | Nov 27 | St. Peter's Church | 23.43 | 163 | 453 |
| 1905 | 87.2 | Oct 27 | 24.4 | 1905 | 6.35 | Aug 2 | St. Peter's Church | 25.72 | 164 | 514 |
| 1906 | 87.2 | Oct 27 | 24.4 | 1906 | 7.00 | Sept 15 | St. Peter's Church | 30.10 | 154 | 569 |
| 1907 | 81.0 | July 22 | 21.4 | 1907 | 4.40 | Oct 12 | St. Peter's Church | 34.01 | 194 | 648 |
| 1908 | 81.2 | July 27 | 27.0 | 1908 | 0.96 | June 28 | St. Peter's Church | 37.05 | 175 | 476 |
| 1909 | 80.8 | Aug 22 | 18.5 | 1909 | 4.95 | May 25 | St. Peter's Church | 26.69 | 195 | 506 |
| 1910 | 87.5 | Aug 22 | 15.5 | 1910 | 4.50 | April 20 | St. Peter's Church | 26.21 | 152 | 414 |
| 1911 | 80.5 | May 25 | 15.7 | 1911 | 4.31 | Dec 9 | St. Peter's Church | 23.20 | 175 | 536 |
| 1912 | 84.0 | July 22 | 25.2 | 1912 | 5.30 | Jan 8 | St. Peter's Church | 24.50 | 215 | 569 |
| 1913 | 80.6 | Nov 24 | 26.4 | 1913 | 4.70 | Aug 2 | St. Peter's Church | 24.40 | | 503 |
| 1914 | | | | 1914 | | | | | | 479 |
| 1915 | | | | 1915 | | | | | | 540 |
| 1916 | | | | 1916 | | | | | | 418 |
| 1917 | | | | 1917 | | | | | | 430 |
| 1918 | | | | 1918 | | | | | | 576 |
| 1919 | | | | 1919 | | | | | | 458 |

29

Barometer readings (Kew and Westminster)—barometer readings

| W | 4 |
|-----------|-----------|
| Prevalent | Prevalent |
| Direction | Direction |
| SW | 30 |
| W | 17 |
| SW | 8 |
| SW | 35 |
| W | 8 |
| W | 10 |
| W | 33 |
| W | 40 |
| W | 43 |
| W | 30 |
| W | 41 |
| W | 49 |

| | |
|-----------------------------------|---------|
| LONDON (Greater) England | 772 897 |
| New York (Greater), U.S.A. | 768 000 |
| BERLIN Prussia (1925) | 748 060 |
| PARIS France (1921) | 746 000 |
| Chicago U.S.A. (1920) | 733 826 |
| Osaka (Japan) (1925) | 730 551 |
| TOKIO Japan (1927) | 721 000 |
| Buenos Aires Argentina (1924) | 718 046 |
| VIENNA Austria (1920) | 709 000 |
| Philadelphia U.S.A. (1920) | 698 000 |
| Moscow Russia (1923) | 681 000 |
| Canton China (1920) | 680 000 |
| Calcutta India (1921) | 680 000 |
| Peking China (1921) | 677 000 |
| BUDAPEST Hungary (1921) | 673 000 |
| Bombay India (1921) | 670 000 |
| RIO DE JANEIRO Brazil (1920) | 644 001 |
| Hamburg Germany (1925) | 619 000 |
| SYDNEY New South Wales (1926) | 615 000 |
| Montreal Canada (1928) | 590 000 |
| CAIRO Egypt (1927) | 588 343 |
| Glasgow Scotland (1921) | 586 000 |
| WARSAW Poland (1921) | 576 673 |
| Leninград (1927) | 570 000 |
| YANKING China (1921) | 562 000 |
| Detroit U.S.A. (1920) | 555 000 |
| MELBOURNE Victoria (1926) | 552 343 |
| Birmingham England (1921) | 548 000 |
| Milan Italy (1926) | 528 721 |
| Naples Italy (1926) | 522 951 |
| Shanghai International Settlement | 522 893 |
| Liverpool England (1921) | 516 000 |
| BRUSSELS Belgium (1925) | 511 500 |
| PUGHART | 506 775 |
| Cleveland U.S.A. (1920) | 506 676 |

LONDON WITHIN VARIOUS BOUNDARIES

AREA IN
STATUTE
ACRES

POPULATION

1911

1921

74 816

4 522 685

4 483 249

675

19 657

13,709

268 356

6 610 031

447 626

7 231 701

7,466 492

448 301

7 251 358

7 480 201

3 045 120

9 201 484

9 610 104

HIGHEST MOUNTAIN RANGES

THE UNION JACK

| | | |
|---------------|---------------|--------------|
| CONTEST | Range | Highest Peak |
| Europe | Alps | Mont Blanc |
| Asia | Himalayas | Everest |
| Africa | Kilimanjaro | Kilima Njaro |
| North America | Rockies | Logan |
| South America | Andes | Illampu |
| Australia | Monaro | Macintyre |
| New Zealand | Southern Alps | Cook |
| Oceania | Macintyre | Macintyre |

THE LARGEST CITIES OF THE WORLD

| | |
|-----------------------------------|--------|
| LONDON (Greater), Engla 1 (1921) | 772 89 |
| New York (Greater), U S A (1925) | 768 00 |
| BERLIN Prussia (1925) | 748 06 |
| PARIS, France (1921) | 746 00 |
| Chicago U S A. (1920) | 733 82 |
| Osaka (Japan (1925) | 730 55 |
| TOKIO Japan (1927) | 721 00 |
| Buenos Aires Argentina (1924) | 718 04 |
| VIENNA Austria (1920) | 700 00 |
| Philadelphia U S A (1920) | 698 00 |
| Moscow Russia (1923) | 681 00 |
| Canton China (1920) | 680 00 |
| Calcutta India (1921) | 680 00 |
| Peking China (1921) | 677 00 |
| BUDAPEST Hungary (1921) | 673 00 |
| Bombay India (1921) | 670 00 |
| PIO DE JANEIRO Brazil (1920) | 644 00 |
| Hamburg Germany (1925) | 619 00 |
| SYDNEY New South Wales (1926) | 615 00 |
| Montreal Canada (1928) | 590 00 |
| CAIRO Egypt (1927) | 588 30 |
| Glasgow Scotland (1921) | 586 00 |
| WARSAW Poland (1921) | 576 00 |
| Leningrad (1927) | 570 00 |
| NANKING China (1921) | 562 00 |
| Detroit U S A. (1920) | 555 00 |
| MELBOURNE Victoria (1926) | 552 30 |
| Birmingham England (1921) | 548 00 |
| Milan Italy (1926) | 528 70 |
| Naples Italy (1926) | 522 90 |
| Shanghai International Settlement | 521 80 |
| Liverpool England (1921) | 516 00 |
| BRUSSELS Belgium (1925) | 511 50 |
| BUCHAREST | 506 70 |
| Cleveland U S A (1920) | 506 00 |

LONDON WITHIN VARIOUS BOUNDARIES

AREA IN
STATUTE
ACRES

POPULATION

1921

1921

74 816

4 521 685

4 453 241

675

19 657

13 700

268 356

6 610 031

447 626

7 231 701

7 466 490

448 301

7 251 358

7 480,200

3 045,120

9 201 484

9 610 200

Boundaries—The Administrative County of London includes the whole of the Metropolitan Parliamentary Division. It also comprises the City of London and the Metropolitan Borough of the Metropolitan Police District extends over a radius of 15 miles from Charing Cross exclusively. The City of London embraces an area of upwards of 699 square miles.

HIGHEST MOUNTAIN RANGES.

THE UNION JACK

| COUNTRY | NAME | HIGHEST PEAK |
|---------------|----------------|----------------|
| Europe | Alps | Mont Blanc |
| Asia | Himalayas | Everest |
| Africa | Kilimanjaro | Kilimanjaro |
| North America | Alaska | Denali |
| South America | Andes | Aconcagua |
| Australia | Mt. Kosciuszko | Mt. Kosciuszko |
| New Zealand | Mount Cook | Mount Cook |
| Oceania | Mount Elbrus | Mount Elbrus |

The League of Nations.

THE League of Nations came into being when the Treaty of Peace with Germany was ratified in January 1919. Its Charter, which is the basis of its work, was drawn up by the Conference of Ambassadors at Versailles, and its principles were embodied in the Treaty of Peace with Germany, which was signed at Versailles on 28th June 1919. The League of Nations was established on 10th January 1920, when the Treaty of Peace with Germany was ratified by the German Reichstag.

President, Pierre Comert (French);
President, Arthur Sweetzer (American), Assistant Director

League of Nations, Health Statistics and the Reduction of Armaments. A week passes without these bodies discussing it.

WHEATKIN

| COUNTRY | RULER | Born | Accessed |
|-------------------|---------------|--------------|---------------|
| Armenia | " | 1876 | Sept. 27 1916 |
| Afghanistan | " | " | " |
| Albania | " | 1893 | Sept. 1 1928 |
| Alexandretta | " | " | 1928 |
| Argentine Republi | " | " | Oct. 12 1928 |
| Austria | " | " | Nov. 20, 1928 |
| Belgium | " | 1875 | Dec. 27 1905 |
| Bhutan | " | " | 1928 |
| Bolivia | " | " | Jan. 20 1928 |
| Brazil | " | " | Nov. 15 1928 |
| Bulgaria | " | 1894 | Oct. 3 1918 |
| Chile | " | " | July 22 1928 |
| China | " | " | Oct. 10, 1928 |
| Colombia | " | 1867 | Aug. 7 1928 |
| Costa Rica | " | " | May 8 1928 |
| Cuba | " | " | May 20, 1928 |
| Czechoslovakia | " | 1850 | Nov. 14 1911 |
| Denmark | " | 1870 | May 14 1911 |
| Dominican Republi | " | " | July 12 1928 |
| Ecuador | " | " | April 1 1928 |
| Egypt | " | 1858 | Oct. 9 1917 |
| Estonia | " | " | 1928 |
| Finland | " | 1881 | March 1 1928 |
| France | " | 1803 | June 13 1928 |
| Germany | " | 1847 | May 12 1928 |
| Greece | " | " | Aug. 25 1928 |
| Guatemala | " | " | Sept. 26 1928 |
| Haiti | " | " | May 15 1928 |
| Honduras | " | " | Feb. 1 1928 |
| Hungary | " | 1867 | Mar. 1 1928 |
| Iceland | " | 1870 | May 14 1928 |
| Iraq Mesopotamia | " | " | 23 1928 |
| Italy | " | " | 29 1908 |
| Japan | " | " | 25 1928 |
| Latvia | " | " | 8 1928 |
| Lebanese Republic | " | " | 1928 |
| Liberia | " | " | 1 1928 |
| Lichtenstein | " | " | 1928 |
| Lithuania | " | " | 20 1928 |
| Luxembourg | " | " | 9 1911 |
| Mexico | " | " | 1 1928 |
| Moldavia | Lothar Prince | July 12 1870 | June 25 1928 |
| " | " | 1909 | Nov. 20 1928 |
| " | " | 1884 | 1901 |
| " | " | 30 1906 | Dec. 11 1911 |
| " | " | 31 1880 | Nov. 23 1891 |
| " | " | " | 1 1928 |
| " | " | 3 1872 | Nov. 18 1901 |
| " | " | 1886 | Oct. 5 1911 |
| " | " | " | 1 1928 |
| " | " | 31 1857 | Feb. 6 1928 |
| " | " | " | 1928 |
| " | " | " | Oct. 31 1928 |
| " | " | " | Aug. 9 1911 |
| " | " | 1867 | June 1 1928 |
| " | " | " | 1928 |
| " | " | 25 1922 | July 20 1928 |
| " | " | " | 1928 |
| " | " | " | Mar. 1 1928 |
| " | " | " | " |
| " | " | 26 1874 | May 17 1911 |
| " | " | 8 1891 | Nov. 26 1928 |
| " | " | 17 1886 | May 17 1886 |
| " | " | 10 1858 | Dec. 8 1907 |
| " | " | " | Jan. 1 1928 |
| " | " | " | 1928 |
| " | " | " | April 1928 |
| " | " | 1881 | Oct. 1928 |
| " | " | " | Mar. 1928 |
| " | " | " | " |
| " | " | 17 1828 | " |

THE PRESIDENTS OF THE UNITED STATES OF AMERICA

e first

| | | | | | | Age |
|----|---------------------------|-------|-----------|------|-------------------|---------|
| 1 | GEORGE WASHINGTON | Va. | Fed. | 1732 | 1789-1797 | 1790 67 |
| 2 | John Adams | Mass. | " | 1735 | 1797-1801 | 1801 66 |
| 3 | Thomas Jefferson | Va. | Dem. Rep. | 1743 | 1801-1809 | 1809 66 |
| 4 | James Madison | Va. | " | 1751 | 1809-1817 | 1817 66 |
| 5 | James Monroe | Va. | " | 1758 | 1817-1825 | 1825 67 |
| 6 | John Quincy Adams | Mass. | " | 1767 | 1825-1829 | 1829 62 |
| 7 | Andrew Jackson | Tenn. | Dem. | 1767 | 1829-1837 | 1837 69 |
| 8 | Martin Van Buren | N.Y. | " | 1781 | 1837-1841 | 1841 60 |
| 9 | William Henry Harrison† | Ohio | Whig | 1773 | March-April 1841 | 1841 68 |
| 10 | John Tyler (a) | Va. | " | 1790 | 1841-1845 | 1845 55 |
| 11 | James Knox Polk | Tenn. | Dem. | 1795 | 1845-1849 | 1849 54 |
| 12 | Zachary Taylor† | La. | Whig | 1784 | 1849-1850 | 1850 66 |
| 13 | Millard Fillmore (a) | N.Y. | " | 1800 | 1850-1853 | 1853 53 |
| 14 | Franklin Pierce | N.H. | Dem. | 1804 | 1853-1857 | 1857 53 |
| 15 | James Buchanan | Pa. | " | 1793 | 1857-1861 | 1861 68 |
| 16 | Abraham Lincoln† | Ill. | Rep. | 1809 | 1861-1865 | 1865 56 |
| 17 | Andrew Johnson (a) | Tenn. | " | 1808 | 1865-1869 | 1869 61 |
| 18 | Ulysses Simpson Grant | Ill. | " | 1822 | 1869-1877 | 1877 55 |
| 19 | Rutherford Birchard Hayes | Ohio | " | 1822 | 1877-1881 | 1881 59 |
| 20 | James Abram Garfield† | Ohio | " | 1831 | March-April, 1881 | 1881 49 |
| 21 | Chester Alan Arthur (a) | N.Y. | " | 1831 | 1881-1885 | 1885 54 |
| 22 | Grover Cleveland | N.Y. | Dem. | 1837 | 1885-1889 | 1889 52 |
| 23 | Benjamin Harrison | Ind. | Rep. | 1833 | 1889-1893 | 1893 60 |
| 24 | Grover Cleveland | N.Y. | Dem. | 1837 | 1893-1897 | 1897 60 |
| 25 | William McKinley† | Ohio | Rep. | 1843 | 1897-1901 | 1901 58 |
| 26 | Theodore Roosevelt (a) | N.Y. | " | 1858 | 1901-1909 | 1909 51 |
| 27 | William Howard Taft | Ohio | " | 1857 | 1909-1913 | 1913 56 |
| 28 | Woodrow Wilson | N.J. | Dem. | 1856 | 1913-1921 | 1921 65 |
| 29 | Warren Gamaliel Harding† | Ohio | Rep. | 1865 | 1921-1923 | 1923 57 |
| 30 | Calvin Coolidge (a) | Mass. | Rep. | 1872 | 1923-1933 | 1933 61 |
| 31 | Herbert C. Hoover | Iowa | Rep. | 1874 | 1933-1933 | 1933 59 |

NOTES —† Died in office ‡ Assassinated. (a) Elected as Vice President

FRENCH DYNASTIES AND PRESIDENTS

The Capets

The Capulets

Hugh Capet "The Great"

Louis IX. "St. Louis"

Philip, "The Hardy"

Henry II

Francis II

Charles IX

Henry III

Marie Perle

10-Jan-1871

Finance and Trade of Foreign Countries

(Converted to Sterling at the rates shown on pp 448-450)

| Country | Revenue | Expenditure | Imports | | Exports | |
|------------------|-------------|---------------|-------------|------------|---------------|-------------|
| | | | Total | From U.K. | Total | To U.K. |
| | £ | £ | £ | £ | £ | £ |
| Abyssinia | | | 1,250,000 | 17,000 | 1,250,000 | 222,000 |
| Afghanistan | 1,500,000 | | 1,750,000 | 15,000 | 1,250,000 | 1,000 |
| Albania | 580,000 | 2,000,000 | 1,000,000 | | 480,000 | |
| Argentina | 137,000,000 | 622,000,000 | 165,000,000 | 27,603,000 | 160,000,000 | 76,584,000 |
| Austria | | | 81,340,000 | 2,012,000 | 50,375,000 | 2,434,000 |
| Belgium | 34,700,000 | 289,000,000 | 131,000,000 | 25,255,000 | 111,000,000 | 46,439,000 |
| Bolivia | 3,200,000 | 13,000,000 | 5,500,000 | 428,000 | 9,000,000 | 6,735,000 |
| Brazil | 35,000,000 | 140,000,000 | 84,450,000 | 14,665,000 | 102,850,000 | 4,466,000 |
| Bulgaria | 10,000,000 | | 9,000,000 | 931,000 | 7,500,000 | 69,000 |
| Chile | 21,000,000 | 50,000,000 | 30,584,000 | 5,411,000 | 46,721,000 | 7,457,000 |
| China | 40,000,000 | 215,000,000 | 180,000,000 | 9,812,000 | 130,000,000 | 12,223,000 |
| Colombia | 10,500,000 | 6,000,000 | 17,000,000 | 3,407,000 | 17,000,000 | 1,363,000 |
| Congo Free State | 1,100,000 | 4,000,000 | 2,750,000 | 461,000 | 1,600,000 | 471,000 |
| Costa Rica | 1,405,000 | 4,000,000 | 2,840,000 | 414,000 | 3,896,000 | 2,732,000 |
| Cuba | 16,200,000 | 18,000,000 | 53,000,000 | 1,175,000 | 60,400,000 | 6,607,000 |
| Czechoslovakia | 60,000,000 | 220,000,000 | 95,400,000 | 3,040,000 | 111,500,000 | 9,361,000 |
| Denmark | 18,400,000 | 60,000,000 | 82,000,000 | 10,568,000 | 71,000,000 | 49,977,000 |
| Dominican Rep. | 2,600,000 | 3,000,000 | 4,800,000 | 295,000 | 5,000,000 | 2,000,000 |
| Ecuador | 1,500,000 | 4,676,000 | 1,883,000 | 435,000 | 5,543,000 | 245,000 |
| Egypt | 39,000,000 | 92,000,000 | 52,400,000 | 12,763,000 | 43,000,000 | 23,685,000 |
| Estonia | 4,716,000 | 5,500,000 | 5,310,000 | 690,000 | 5,363,000 | 2,550,000 |
| Finland | 20,000,000 | 14,500,000 | 28,500,000 | 3,288,000 | 28,000,000 | 25,000,000 |
| France | 300,000,000 | 1,804,000,000 | 450,000,000 | 42,093,000 | 481,000,000 | 63,477,000 |
| Germany | 555,000,000 | | 497,000,000 | 69,415,000 | 490,000,000 | 59,815,000 |
| Greece | 27,354,000 | 117,858,000 | 25,706,000 | 4,808,000 | 13,004,000 | 1,978,000 |
| Haiti | 2,000,000 | 3,957,000 | 4,744,000 | 442,000 | 5,973,000 | 71,000 |
| Holland | 2,000,000 | 4,750,000 | 3,800,000 | 183,000 | 4,400,000 | 162,000 |
| Honduras | 920,000 | 2,900,000 | 2,000,000 | 555,000 | 1,691,000 | 1,293,000 |
| Hungary | 25,000,000 | 10,000,000 | 34,200,000 | 1,035,000 | 31,200,000 | 410,000 |
| Iceland | 500,000 | 1,000,000 | 2,500,000 | 612,000 | 2,400,000 | 385,000 |
| Ireland | 4,000,000 | | 17,000,000 | 3,822,000 | 12,500,000 | 1,908,000 |
| Italy | 145,344,000 | 731,291,400 | 206,970,000 | 15,726,000 | 149,365,000 | 16,772,000 |
| Japan | 175,000,000 | 518,000,000 | 238,000,000 | 15,393,000 | 205,000,000 | 8,166,000 |
| Latvia | 6,360,000 | 3,500,000 | 10,400,000 | 1,285,000 | 7,540,000 | 6,001,000 |
| Lithuania | 205,000 | 250,000 | 450,000 | 207,000 | 360,000 | 61,000 |
| Lithuania | 5,000,000 | 1,500,000 | 4,000,000 | 253,000 | 5,500,000 | 300,000 |
| Luxembourg | 1,000,000 | 1,200,000 | | 6,000 | | 624,000 |
| Mexico | 20,000,000 | 100,000,000 | 40,000,000 | 2,225,000 | 70,000,000 | 5,523,000 |
| Monaco | | | 9,000,000 | 1,765,000 | 7,500,000 | 564,000 |
| Netherlands | 1,000,000 | | | 150,000 | | 15,000 |
| Netherlands | 51,000,000 | 252,000,000 | 203,500,000 | 26,045,000 | 145,500,000 | 44,483,000 |
| Norway | 880,000 | 2,400,000 | 2,060,000 | 258,000 | 2,600,000 | 197,000 |
| Norway | 21,500,000 | 87,500,000 | 55,000,000 | 7,660,000 | 41,000,000 | 12,920,000 |
| Paraguay | 2,040,000 | | 2,500,000 | 425,000 | 500,000 | 67,000 |
| Peru | 1,067,000 | 2,400,000 | 2,473,000 | 314,000 | 2,500,000 | 103,000 |
| Poland | 6,000,000 | 2,400,000 | 22,000,000 | 2,417,000 | 26,000,000 | 10,500,000 |
| Portugal | 10,000,000 | 15,000,000 | 18,000,000 | 2,163,000 | 23,000,000 | 8,220,000 |
| Romania | 44,320,000 | 70,000,000 | 38,000,000 | 6,165,000 | 52,000,000 | 8,000,000 |
| Russia | 13,150,000 | 76,000,000 | 12,000,000 | 4,321,000 | 28,000,000 | 4,700,000 |
| Siam | 41,750,000 | 25,400,000 | 42,627,000 | 2,789,000 | 45,000,000 | 9,376,000 |
| Spain | 800,000,000 | | 70,000,000 | 11,295,000 | 60,000,000 | 21,300,000 |
| Sweden | 2,278,000 | 4,000,000 | 1,370,000 | 360,000 | 5,100,000 | 50,000 |
| Switzerland | 2,200,000 | 12,120,000 | 17,813,000 | 2,052,000 | 2,000,000 | 300,000 |
| Switzerland | 101,445,000 | 553,000,000 | 75,000,000 | 10,850,000 | 53,000,000 | 18,890,000 |
| Sweden | 29,484,000 | 100,925,000 | 82,755,000 | 10,800,000 | 78,850,000 | 25,300,000 |
| Switzerland | 13,150,000 | 30,500,000 | 96,000,000 | 9,017,000 | 73,500,000 | 14,500,000 |
| Turkey | 182,000,000 | | 242,000,000 | 3,400,000 | 193,000,000 | 3,250,000 |
| U.S.A. | 800,000,000 | 4,000,000,000 | 850,000,000 | 67,000,000 | 1,000,000,000 | 200,000,000 |
| U.S.A. | 10,400,000 | 44,300,000 | 27,000,000 | 3,000,000 | 18,500,000 | 4,600,000 |
| Venezuela | 6,816,000 | 3,650,000 | 13,300,000 | 2,250,000 | 14,173,000 | 400,000 |
| Yugoslavia | 41,737,000 | 121,000,000 | 27,752,000 | 1,350,000 | 28,430,000 | 400,000 |

Colonial Possessions of Foreign Countries.

THE FRENCH COLONIAL EMPIRE.

| Colony and Capital. | Sq. Miles. | Population. |
|----------------------------------|------------|-------------|
| Fr India (Pondichéry) | 200 | 273 000 |
| Annam (Hué) | 40 000 | 6 000 000 |
| Cambodia (Phnom Penh) | 68 000 | 2 500 000 |
| Cochin China (Saigon) | 26 500 | 4 000 000 |
| Tongking (Hanoi) | 41 000 | 7 000 000 |
| Laos (Vientiane) | 83 000 | 900 000 |
| Kwang Chau Wan (Ma tchu) | 200 | 200 000 |
| Algeria (Algiers) | 222 200 | 6 000 000 |
| Fr Morocco (Rabat) | 210 000 | 6 000 000 |
| Tunis (Tunis) | 45 000 | 2 000 000 |
| Senegal (St. Louis) | 74 000 | 1 250 000 |
| Mauritania (St. Louis) | 350 000 | 300 000 |
| Fr Sudan (Bamako) | 800 000 | 6 000 000 |
| Fr Guinea (Konakri) | 93 000 | 2 250 000 |
| Ivory Coast (Bougerville) | 122 000 | 1 750 000 |
| Dahomey (Port. Novo) | 38 000 | 900 000 |
| Upper Volta (Ouagadougou) | 150 000 | 3 000 000 |
| Fr Niger (Zinder) | 400 000 | 1 250 000 |
| Fr Congo (Brazzaville) | 1 000 000 | 3 000 000 |
| Fr Somaliland (Djibouti) | 6 000 | 200 000 |
| Réunion (St. Denis) | 1 000 | 300 000 |
| Madagascar (Antananarivo) | 225 000 | 4 000 000 |
| Mayotte (Pamanzi) | 800 | 100 000 |
| St. Pierre Miquelon (St. Pierre) | 100 | 4 000 |
| Guadeloupe (Basse Terre) | 700 | 250 000 |
| Martinique (Fort de France) | 400 | 250 000 |
| Fr Guiana (Cayenne) | 35 000 | 50 000 |
| New Caledonia (Nouméa) | 9 000 | 60 000 |
| Tahiti &c | 1 500 | 32 000 |

| | | |
|-----------------------------|---------|-----------|
| Syria and Lebanon (Peyrout) | 105 000 | 3 600 000 |
| Cameroun (Yaoundé) | 170 000 | 2 000 000 |
| Togo (Lomé) | 22 000 | 800 000 |

ITALIAN COLONIES

| | | |
|--------------------------------|---------|---------|
| Eritrea (Asmara) | 64 000 | 400 000 |
| Italian Somaliland (Mogadisho) | 220 000 | 700 000 |
| Cyrenaica (Tripoli) | 150 000 | 600 000 |
| Italian East Africa (Benghazi) | 360 000 | 400 000 |
| Tier talu (Tientsin) | 20 | 10 000 |
| Dodecanese | — | 100 000 |

JAPANESE POSSESSIONS

| | | |
|---------------------|---|---|
| Korea (Seoul) | — | — |
| Yokohama (Yokohama) | — | — |
| Manchuria (Dairen) | — | — |
| Formosa (Taiwan) | — | — |
| Peifu (Peking) | — | — |
| Pacific Islands | — | — |

THE BELGIAN CONGO

The Independent State of the Congo became a Belgian Colony by a law of Oct. 28 1908

NETHERLANDS COLONIES

| Colony and Capital. | Sq. Miles. | Population. |
|-------------------------------------|------------|-------------|
| JAVA and Madura (Batavia) | 51 000 | 35 000 000 |
| Sumatra (Padang) | 162 000 | 6 500 000 |
| Pionw Lingga (Tanjong Pinang) | 18 000 | 125 000 |
| Bangka and Billiton (Muntok) | 6 350 | 160 000 |
| West Borneo (Pontianak) | 56 000 | — |
| South and East Borneo (Banjermasin) | 156 000 | 1 700 000 |
| Celebes (Macassar) | 72 000 | 3 000 000 |
| Moluccas (Ternate) | 44 000 | 700 000 |
| Amboyna (Amboyna) | 20 000 | 300 000 |
| Neth. Timor (Kupang) | 21 000 | 1 000 000 |
| Bali and Lombok (Mataram) | 5 000 | 600 000 |
| Western New Guinea (Ternate) | 160 000 | 200 000 |
| Surinam (Paramaribo) | 50 000 | 113 000 |
| Curaçao (Willemstad) | 440 | 22 000 |

PORTUGUESE COLONIES

| | | |
|--------------------------------------|---------|-----------|
| Port. India (Nova Goa) | 1 500 | 605 000 |
| Macao (Macao) | 3 | 80 000 |
| Port. Timor (Dilly) | 7 500 | 300 000 |
| Cape Verde Islands (Pia) | 1 500 | 150 000 |
| Port. Guinea (Bissau) | 14 500 | 450 000 |
| Port. West Africa (Paul de Loanda) | 450 000 | 5 000 000 |
| Port. East Africa (Lourenço Marques) | 300 000 | 3 000 000 |

SPANISH POSSESSIONS

| | | |
|-------------------------------|---------|---------|
| Balearic Islands (Palma) | 2 000 | 350 000 |
| Ceuta (Ceuta) | 5 | 36 000 |
| Cannary Islands (Santa Cruz) | 2 800 | 480 000 |
| Fernando Po (Bastie) | 800 | 21 000 |
| Rio de Oro (Villa Cisneros) | 100 000 | — |
| Spanish Guinea (Santa Isabel) | 11 000 | 200 000 |
| Morocco | 8 000 | 700 000 |

U.S.A. INSULAR JURISDICTION

| | | |
|---|---------|------------|
| — | 115 000 | 21 000 000 |
| — | 225 | 17 000 |
| — | 3 450 | 1 300 000 |
| — | 132 | 27 000 |
| — | 56 | 9 000 |

LEAGUE OF NATIONS MANDATES

| Former German Colonies. | Allocated to |
|-------------------------|--------------|
| — | — |

British Overseas Governors.

Europe—

£8 000
 £10 000
 £8 000
 £7 700
 £7 700
 £5 000
 £5 500

Asia—

Rs 20 000
 Rs 20 000
 Rs 20 000
 Rs 20 000
 Rs 20 000
 Rs 8 333
 Rs 8 333
 Rs 8 333
 Rs 6 000
 Rs 5 300
 Rs 4 000
 Rs 4 000
 Rs 4 000
 Rs 3 000
 Rs 3 000
 Rs 3 000
 £3 600

£4 000
 £7 000
 \$60 000
 \$77 000
 \$77 235

Africa—

£10 000
 £2 650
 £2 250
 £4 000
 £3 000
 £2 500
 £4 500
 £3 000
 £6 500

£1 800
 £1 500
 £2 000
 £3 000
 £1 500
 £1 000
 Rs 75 000
 Rs 16 000
 £4 000

America—

£10 000
 \$15 000
 £3 200
 £5 000
 £2 000
 £2 500
 £3 000
 £3 500
 £4 000
 £5 700
 £1 800

Oceania—

£10 000
 £5 000
 £5 000
 £5 000
 £7 000
 £2 700

THE PROVINCES OF CANADA

| Province and Capital | English | Portuguese |
|--------------------------------------|---------|------------|
| Alberta (Edmonton) | 255,285 | 588,454 |
| British Columbia (Victoria) | 355,855 | 524,582 |
| Manitoba (Winnipeg) | 271,873 | 610,118 |
| New Brunswick (Fredericton) | | |
| Nova Scotia (Halifax) | | |
| Ontario (Toronto) | | |
| Prince Edward Island (Charlottetown) | | |
| Quebec (Quebec) | | |
| Saskatchewan (Regina) | | |
| Yukon (Dawson) | | |
| North West Territories (Ottawa) | | |
| Royal Canadian Navy | | |

total

THE STATES OF A

| State and Capital | | |
|--------------------------------------|---------|-----------|
| New South Wales (Sydney) | 309 432 | = 100 378 |
| Victoria (Melbourne) | 87 834 | = 531 280 |
| Queensland (Brisbane) | 670 500 | 755 973 |
| South Australia (Adelaide) | 380 090 | 425 160 |
| Western Australia (Perth) | 975 990 | 332 731 |
| Tasmania (Hobart) | 25 215 | 213 760 |
| North Australia (Darwin) | 287 227 | |
| Central Australia (Alice Springs) | 236 393 | 3 667 |
| Federal Capital Territory (Canberra) | 942 | = 572 |
| Total | 974 681 | 435 734 |

THE PROVINCES OF SOUTH AFRICA

| Province and Capital | Sq miles | Pop 1921 |
|----------------------------------|----------------|------------------|
| Cape of Good Hope (Cape Town) | 276 566 | 2 782 719 |
| Natal (Pietermaritzburg) | 31 284 | 1 420 368 |
| Transvaal (Pretoria) | 110 452 | 2 087 636 |
| Orange Free State (Bloemfontein) | 47 647 | 623 627 |
| and all West Province rate | 3 200 | 258 916 |
| Total | 294 547 | 7 217 496 |
| (Miles 1926 = 700 775) | | |

NORTHERN IRELAND

| (continued) Capital | 170 |
|-----------------------------|-----------|
| Antrim (1 Mast) | 70 |
| Belfast (cont'd) 2 growth | 18 |
| Arisach (Arish) | 318 |
| Inwich (Inverich) | 608 |
| Burnside (Barnhill) | 41 |
| Lionel Ferry (Lionel Ferry) | 91 |
| Leicester Co. (Leicester) | 2 |
| Tyrone (Tyrone) | 771 |
| Total Northern Ireland | 3,358,446 |

THE PROVINCES OF INDIA

| Province and Capital | Sq. miles. | Pop. 1931 |
|-----------------------------|------------|-------------|
| Ajmer Merwara (Ajmer) | 2,712 | 495,721 |
| Ankush and Nigah (Ferozpur) | 3,143 | 27,225 |
| | 53,015 | 7,606,130 |
| | 54,228 | 4,20,640 |
| | 76,643 | 46,695,536 |
| | 83,162 | 34,002,129 |
| | 123,621 | 19,348,119 |
| | 77,025 | 16,012,347 |
| | 46,506 | 3,270,377 |
| | 80 | 56,500 |
| | 233,797 | 13,212,157 |
| | 99,876 | 13,912,756 |
| | 1,582 | 163,835 |
| | 557 | 488,186 |
| | 142,260 | 41,318,987 |
| | 13,419 | 2,251,341 |
| | 99,822 | 20,685,000 |
| | 106,205 | 45,375,787 |
| Total Provinces | 1,001,700 | 147,007,897 |

THE ISLANDS OF NEW ZEALAND

| Lat. nds. | 4 1/2 Miles | P. p. 190 |
|-----------|-------------|-----------|
| 44 131 | 837 8 | |
| 58 120 | 517 9 | |
| 662 | 4 | |
| 372 | 3 | |
| 225 | | |
| 44 | | |
| 13 | | |
| 3 | | |
| 13 | | |
| 150 | | |
| 130 | 13 6 | |
| 4 | 7A | |
| 1 143 | 40 1 | |
| -- | 63 6 | |
| Total | 105 005 | 1,457 |

LONDON REPRESENTATIVES OF BRITISH DOMINIONS

| | |
|-----------------------|--|
| Union of South Africa | K.C.M.G. <i>High Commissioner</i> H. C. T. le Water High Commissioner |
| Newfoundland | (Vacant) |
| British India | Sir A. C. Chatterjee K.C.I.F., <i>High Commissioner</i> |
| Irish Free State | T. A. Studdy M.A. <i>High Commissioner</i> |
| Southern Rhodesia | Sir F. I. Newton K.C.M.G. C.I.O., <i>High Commissioner</i> |
| Frisch North Borneo | — |
| Malay States | — |
| Manuk | — |

Indian Government

Colonies & Protectorates Crown Agents for the Colonies

TRADE COMMISSIONER SERVICE IN BRITISH INDIA

CANADA—Montreal F. W. Field (*Trade Commissioner Grade I*)
Toronto A. M. Wiseman M.C. (*Trade Commissioner Grade II*)

NEW ZEALAND—Wellington, L. A. Palsch O.B.E. (*Trade Commissioner Grade I*)

SOUTH AFRICA—Capetown N. Elmslie (*Trade Commissioner Grade I*)

Johannesburg J. W. Bridgen (*Trade Commissioner Grade II*)

IRISH FREE STATE—Dublin—W. Peters C.M.A. (*Trade Commissioner Grade I*)

INDIA AND CEYLON—Calcutta T. M. Alcock, C.B.E. (*Trade Commissioner Grade I*)
Bombay, Major E. W. Clarke (*Trade Commissioner Grade II*)

EAST AFRICA—Nairobi Col. W. H. Franklin C.B.E. D.S.O. (*Trade Commissioner Grade II* with local rank of *Trade Commissioner Grade I*)

AFRICA WEST COAST—Freetown S. L. Wilson (*Trade Commissioner Grade II*)

British Kings and Queens from 1603

| Name. | DYNASTY | Access | 1 Incl. | Age | Reign |
|------------|--|--------|--------------------|-----|-------|
| | | | | | 22 |
| | | | | | 24 |
| | | | | | 36 |
| | | | | | 3 |
| | | | | | 13 |
| | | | | | 6 |
| | | | | | 12 |
| GEORGE I | | 1689 | 1727 | 67 | 13 |
| GEORGE II | | 1727 | 1760 | 77 | 33 |
| GEORGE III | | 1760 | 1830 | 81 | 59 |
| GEORGE IV | | 1830 | 1830 | 67 | 10 |
| WILLIAM IV | Third son of George III | 1830 | 1837 | 71 | 7 |
| VICTORIA | Daughter of Edward 4th son of George III | 1837 | 1901 | 81 | 63 |
| | <i>The House of Saxe-Coburg</i> | | | | |
| EDWARD VII | Eldest son of Victoria | 1901 | 1910 | 68 | 9 |
| | <i>The House of Windsor</i> | | | | |
| GEORGE V | Surviving son of Edward VII | 1910 | WH IN GOD PRESERVE | | |

The House of Windsor is in direct descent from (inter alios) Egbert, King of Wessex, Alfred the Great and William the Conqueror, also from the Emperor Charlemagne (b 742 d 814), Rodrigo the Cid (b 1030 d 1099), the Emperor Barbarossa (b 1123 d 1190) and St Louis, King of France (b 1215 d 1270).

WELSH SOVEREIGNS AND PRINCES

INDEPENDENT PRINCES, A.D. 844 to 1292

ENGLISH PRINCES SINCE A.D. 1292

1301
1343
1377
1399
1454
1472
1483
1489
1503
1510
1516
1530
1534
1547
1551

 THE FAMILY OF KING EDWARD VII

KING EDWARD VII

The House of Windsor.

His Most Excellent Majesty George the Fifth, by the Grace of God of Great Britain, Ireland and the British Dominions beyond the Seas, King, Defender of the Faith and Emperor of India, only surviving son of His late Majesty King Edward VII and Her late Majesty Queen Alexandra, born at Marlborough House, June 3, 1865; married July 6 1893 Her Serene Highness Princess Victoria Mary Augusta Louise Olga Pauline Claudine Agnes Queen Mary I on May 26, 1867 (see "Family of King George I p. 104), succeeded to the Throne May 6 1910, crowned at Westminster Abbey, June 22, 1911. Their Majesties have issue —

(1) The Prince of Wales

(3) The Princess Mary

(2) The Duke of York

Westminster Earl of Esher and Baron Cull
A.D. P.C. G.C.V.O. Personal A.D.C. to H.M.
King. Capt. 10th Hussars, born March 31, 1901.

ANNUITIES TO THE ROYAL FAMILY

| The sum being available for the year ending 1910 | | | |
|--|----------|--|----------|
| Their Majesties Privy Purses | £15,000 | | |
| Salaries of Household | 6,000 | | |
| Expenses of Household | 27,000 | | |
| Wages | 6,000 | | |
| Royal Bounty | 12,000 | | |
| Unappropriated | 26,000 | | |
| | £170,000 | | |
| | | | £106,000 |

The King's Household.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Cid & K Field Marshal Viscount Alleby GCB GCMG
 Do Major General Hu Sir Cecil Bingham GCB GCMG CB
 Do Field Marshal Sir William Robertson GCB GCMG KCVO DSO
 Do Admiral of the Fleet Kynsley Admiral Hon Sir Stanley Colville GCB GCMG,
 GVO
 Fear Admiral of the Fleet Kynsley Admiral Sir Montagu E. Browning GCB GCMG.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

Assistant to the King and Keeper of the Privy Purse
 Rt. Hon. Sir Frederick Ponsonby
 GCB GCMG

Deputy Paymaster
 Secretary of the Pay & Pione Paymaster Rear
 Admiral P J H L. Low

[illegible]

Black nze i 100
Hovland Miss V Whishaw Miss C E King

The King's Archives
Keeper of the King's Archives

Treasurer's Office | Lord Stamfordham, GCH. CLERK SCVO

• **What is the purpose of the study?** The purpose of the study is to determine the effect of the use of a mobile phone on the performance of a simulated driving task.

1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

...the fact that the *de novo* synthesis of fatty acids is inhibited by the presence of exogenous fatty acids, and that the *de novo* synthesis of fatty acids is inhibited by the presence of exogenous fatty acids.

U. S. AIR FORCE
AIR FORCE

Private Secretary's Office

[illegible]

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

Deputy Gent. at, Sir Richard R. Cruise K C B
F E C S

Sergeants-at-Arms, (Capt Sir Finest B 10
V O F C V O, C B E, Sir Francis Mo
O, C B E, I S O Clifford Long
denie Stanley Osgood M V O O
Mrs J Keating (Kenan
1125 A Symonds (Hampson C

C T O M E A S L D S
Surgeon Dentist to the Household Francis D
Donovan L D S, F C S
Honorary Anesthetist Harold Low M A M R.

Royal Mews Department.
Crown Equerry Col Arthur Edward Esal
C T O, L S O

Coroner of the King's Household, A W Mills

E. M.
Clerk to Master of the Household's Department
A. E. Hurley
Inspector Buckingham Palace, T D Williams
D C M
Inspector Windsor Castle W March
Palace Steward E. G. Smythen
Housekeeper, Buckingham Palace Miss Moore
Do Windsor Castle Mrs Amelia Rawlings
Lord Chamberlain's Office

H H D W H O S E A S T, C B L M U C,
V O O Adm of the Fleet Lond Wes
Wemyss, G C B C V O, V V O
Supt. Royal Mews London Maj G F T Hopk
M C

CHIEF CLERK
Clerks Jocelyn Godfrey M V O A S Luchanan
G A Titman

CENTRAL CHANCERY

Pages of Honour A G A A Mackenzie.

The Lady Fanny

COMPLETE LIST OF THE PEERS

ROYAL DUKES (4) — *Style* His Royal Highness the Duke of — *Addressed as*, Sir, or most formally May it please your Majesty.

1337 Cornwall Edward Prince of Wales Duke of Cornwall (1337) Scottish Duke of Rothesay (1398)
K.G. P.C. b 1894 m 1910

1920 York Albert Duke of York K.G. P.C. b 1895 m

1928 Gloucester Henry Duke of Gloucester K.G. P.C. b 1900.

1874 Connaught & Strathearn Arthur, Duke of Connaught and Strathearn, K.G., P.C., Lieut. Marshal b 1850 w

ARCHBISHOPS — *Style* The Most Rev. His Grace the Lord Archbishop of — *Addressed as*, My Lord Archbishop, or, Your Grace



Trinity
1928 t

secrnt

1925



Create
1929 a 1929

Title, Name &c

Eldest Son or Heir

Marq. of Hamilton b 19

Ian Douglas C. b 1903

Lord James S. W. b 187

b 1878 m 1925 m
1756 Newcastle (under Lyne), Henry Francis Pullham Clinton Hope.

b 1907

b 1866 m 1923 m
1483 Norfolk Bernard Marmaduke Fitzalan Howard b 1908

Earl of Lincoln b 1907

K. 1917
1766 Northumberland, Alan Ian Percy K.G., C.B.E., M.C. b 1920

1st Lieut. Fitzalan Howard
K.G., C.B.E., M.C. b 1920

1716

Earl Percy b 1922

1675

Marq. of Bitchfield M.C.
b 1893

Earl of Mar

| DUCHESSES IN HER OWN RIGHT | |
|---|--|
| 1900 | F/ Alexandra Princess (H F H Princess Athol) Earl of Macduff, b 1914 |
| 1891 | 1891 & 1912 m |
| MARQUESES—Style The Most Hon the Marquess of — Addressed as, My Lord Marquess In titles marked * the of is not used | |
| 1790 | Abercorn Sir Abercorn Irish Duke (As Irish) |
| 1915 | Aberdeen and Feina: John Campbell Gordon P C, K T C M G, Earl of Haddo, C B E, & G C B (Scott Earl Aberdeen) b 1847 1st Marquess m. 1879 |
| 1876 | Abergenny Henry Gilbert Ralph Nevill b 1854 & 1927 m { Maj Guy T M Larnach |
| 1881 | Ailesbury George W J C Brudenell Bruce D S O T D, b 1873 Derill, b 1883 |
| 1831 | * 1911 m |
| 1815 | Earl of Cardigan b 1904 |
| 1780 | Earl of Cassilis b 1878 |
| 1826 | Earl of Uxbridge b 1911 |
| 1796 | Viscount Weymouth, b 1905 |
| | Lord Walter H, b 1865 |
| | b 1881 & 1900 m. Earl of Dumfries, b 1907 |

| Created 1871 | | Eldest Son or Heir |
|------------------------------|--|---|
| 1881 1925 | | Earl of Ossory b 1890 Lord Cecil C. D. b 1898 Visct Erie b. M. C. K. b 1889 Viscount Cranborne M. b 1893 |
| 1789 1801 | | Earl of Altamont b 189 George Kerrans J. b 18 |
| 1787 1694 | T. C. J. Patrick Don in a lowland b 1915 & 1921 M Tweeddale Wm George Montagu Hay (U. A. Baro. Tweeddale), b 1884 & 1921 | Lord Edward H. b 188 Lord William de la P. b 1905 Maj Charles S. P. M. V. |
| 1789 1551 1892 | Watersford John Charles de la Iver Beresford (Dut. Baron) T. R. C. b 1901 & 1911 W. Chester Henry William Mo. T. R. C. b 1862 & 1899 N Zelland Lawrence J. M. L. D. D. C. S. C. C. I. E. b 1876 & 1929 M | Earl of Ronaldshay b 1 |
| 1867 & 1910 M | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |
| 1789 1785 1762 1817 | 1789 1785 1762 1817 | b 1879 b 1879 b 1879 b 1879 |

| Created. | Title &c | Eldest Son or Heir |
|----------|--|-------------------------------|
| 1720 | | Hon Henry S b 1855 |
| | | Hon Henry P b 1875 |
| | | Hon Eoderie C B. J. |
| | | 1 T M C, b 1835 |
| | | Lord Clifton, b 1914 |
| | | Lord Hyde b 1906 |
| | | (Noi e) |
| | | Vice Adm W H D J (C N b 1873) |
| | | Hon J Bu P b 1907 |
| | | Viscount Stopford O B. K., |
| | | 1 1877 |
| | | Visct Deerhurst b 1900 |
| | | Viscount Bangau 1 1901 |
| | | Hon Ralph G H 1 1901 |
| | | Visct. Uttington b 1917 |
| | | Lord Balmiel M P b 1900 |
| | | Visct. Errington b 1918 |
| | | H n Simon R. b 1914 |
| | | Lord Clifton b 1915 |
| 1725 | Dar ley Esme Ivo Bligh b 1885 & 1927 in | Visct Lewisham b 1884 |
| 1721 | Du t o th William Henneage Legge P O G C V O K C B V b | (Able to Earldom) |
| | b 1851 & 1891 16 | 1 Buckhurst b 1901 |
| 1866 | Dartree Anthony Lucius Dawson (19th Baron Cemo e) | 1 Field 12 C. M. G. |
| | b 1855 & 1920 | b o b 1885 |
| 1761 | De La Harre Herbrand Edward Dandouall Brassey N kvill | Stanley, M C, M F |
| | | 1894 |
| | | (e) |
| | | ngist above) |
| | | Hon Fredk C b 1875 |
| | | cottish) |
| | | ount Su rdale b 1901 |
| | | unt Moore b 1910 |
| | | Algernon H M 1 |
| | | (1880 |
| | | Edmund M C b 1894 |
| | | rtish) |
| | | Lord Colerane b 1886 |
| | | Viscount Pinetle b 1908 |
| | | Viscount Adare O B. |
| | | C. M. K. M C b 1887 |
| | | Viscount Lan 1 to b 1910 |
| | | Mrs Owain Greaves 1 1889 |
| | | Lord Howard of Effin |
| | | ham b 1905 |
| | | Lord Montgomerie b 1914 |
| | | Viscount Perceval b 1914 |
| | | Hon Michael S b 1900 |
| | | Lord Bruce b 1914 |
| 1853 | | |
| 1861 | Essex Algernon George de Vere Capell b 1884 & 1916 11 | 110 Gilbert H b 1903 |
| | | (to L. A. B. y.) |
| | | Viscount Blinlen b 1906 |

| Created | Title, Name &c. | Elder Son or Heir |
|--|---|---|
| 1711 | | Visct Tamworth, b 1894 |
| 1868 | | (None to Earldom) |
| 1868 L* | | Lord Killeen, M.C., b 1896 |
| 1716 I | | Viscount Milton, b 1910 |
| 1746 A) | b 1872 & 1902 M. | (b 1881) |
| | | Viscount Ebrington, M.C. |
| | | Hon Gerard E.N. b 1921 |
| | | Lord Garlies, b 1928 |
| | | Viscount Kelburn b 1910 |
| | | 1911 |
| | | 50 |
| | | 360 |
| | | b 0 |
| | | 1908 |
| | | 1 |
| | | 1922 |
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| | | 1109 |
| | | 3 |
| 1868 & 1885 M. | | Viscount Hastings b 190 |
| 1885 | Iddeley Henry Stafford Northcote, b 1901 & 1927 | (Rev Hon Arthur F.A., b 1852) |
| 1756 | Ilchester Giles S Holland Fox-Strangways O.B.E. b 74 & 05 M. | Lord Tavordale b 1905 |
| 1929 | Lachenay James Lyle Mackay G.C.S.I. G.C.M.G. K.O.I.E., b 1852 1st Earl M. | Viscount Glenapp b 188; (As Scottish) |
| 1837 | James See Roxburghe Scott Duke | |
| 1920 | Imberness See York Royal Duke | |
| 1919 | Ivagh, Rupert Edward Cecil Leo Guinness, C.B., C.M.G. b 1874 | |
| 1925 | | |
| 1697 | | |
| 1801 L* Kenmare, Valentine Charles Browne, G.V.O. (U.K. Baron, Kenmare) b 1860 & 1905 M. | | Visct Castlerosse b 1891 (As British) |
| 1723 I* Kerry & St Johnstone (1753). See Lansdowne, Brit Marq., p 112 | | (Capt. Hon Francis Edward M.V.O., b 1886) |
| 1822 I Kilmore, Francis Chas Adelbert Henry Needham b 1883 & 1915 M. | | Lord Wodehouse, C.B.E. M.C. b 1883 (1886) |
| 1866 Kimberley John Wodehouse, b 1848 & 1902 M. | | Visct. Kingsborough, Lady—II, b 1929 |
| | | Lord Falconer, b 1879 |
| | | Visct. ... b 1919 |
| | | ... b 191 |
| | | ... b 1891 |
| | | 1880 |

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(None)

1763] *Montrez* Rev William Geoffrey Bouchard de Montmorency
b 1822 d 1880

Per Arthur de M b 1879

(None)

Capt. Hon Thomas H P

U. C. 0 1892

Ho 1, Seymour P b 1863

И. М. МЕРКУНЬ N° 6 1995

Hon. Matthew W. R. to some

Hon Esmond II b 1805

Non.Jestyn R.A.P P b¹17

Hon. Ronald G. J. b 190

Mon Francis N C b 1863

Mon. Edwd. G. C.B. 6 1870

Nov. Raymond A. & 1887

Non Robert S b 1998

(An British)

(None)

Mon 17th Aug. 1894

It Col. Arthur S. E. 6

11-001 JAMES B. L. 6
11876

1941

1622 1-

[illegible]

Leaves

1. **EDIT**
2. **VIEW**

1992

| Created | Title Name &c | Eldest Son or Heir |
|---------|---|--------------------------------------|
| | | (As Irish) |
| | | Apt. Hon Erskine A V. |
| | | 1830 b 1881 |
| | | Capt Hon Rupert b 1891 |
| | | (Life Peerage) |
| | | Hon. Robert H. b 1864 |
| | | (None) |
| | | (As I. K.) |
| | | Hon. Robt. Hugh C. b '77 |
| | | (None) |
| | | Hon John R. B. b 1901 |
| | | (As Irish) |
| | | Hon John Chas C C. b 1916 |
| | | Hon Herbert J. b 1895 |
| | | Hon Richard J. b 1910 |
| | | Hon John Michael H. b 1906 |
| | | (As Irish) |
| | | (None) |
| | | (As Irish) |
| | | Hon Chas O Hugh C. b 87 |
| | | Two co-heiresses |
| | | (As I. K.) |
| | | Hon John Trevor R. b 1900 |
| | | (None) |
| | | Maj Hon Thos. G F C. |
| | | b 90, b 1881 |
| 1905 | Lord de Mallow etc etc etc etc | (None) |
| 1874 | Clifford Duke of Cliffridge b 1877 & 1917 m | Hon Richard D C. b 1902 |
| | | (As I. K.) |
| | | Hon Frederick S. b 1880 |
| | | Hon Wm J. J. b 1925 |
| | | (As British) |
| | | Two co-heiresses |
| | | Capt Hon Wykeham |
| | | C. M. C. b 1892 |
| | | Hon John W. H. F. b 0 |
| | | Hon Herbert A C. H. b 0 |
| | | Hon Alex. A. b 1883 |
| | | Hon Robert G. b 1904 |
| 1891 | Crawford, Gerald Beach Brooks, b 1884 & 1929 | Hon Herbert W. H. b 1899 |
| 1797 | L. "Cremorne" See "Dartrey," U K Earl | Maj Gen Vesey J Dawson |
| 1797 | Clifton Arthur Edward Lowther Clifton b 1856 & 1918 w | C. V. O. b 1853 |
| 1890 | Cremwell, Robert Godfrey Wolseley Bewicke Copley, M. C. b 1893 | Hon Ldw Chas. C. b 1880 |
| | b 1923 m | Hon David Godfrey B. C. b 1929 |
| 1920 | Cullen of Ashburne, Brian Ianan Colwyn K. U. K., b 1864 1st Baron m | Hon Charles F. M. C. b 1901 |
| 1914 | Curlife Rolf Curlife, b 1899 & 1920 m | Hon Geoffrey C. b 1903 |
| 1927 | | |
| 1921 | | |
| 1924 | | |
| 1932 | | |
| 1927 | | |
| 1924 | Darling Charles John Darling P. C. b 1849 1st Baron m | (Maj) Hon John L. D. D. S. O. b 1883 |
| 1922 | Darlington Herbert Pike Pease P. C. b 1867 1st Baron, m | Hon Jocelyn A. P. b 19 |
| | | (e) |
| | | (Irish) |
| | | (e) |
| | | Arthur M. H. I. |
| | | 1915 |
| | | John J. b 1928 |
| | | Francis A. J. I. b |
| | | Thomas C. b 1900 |
| | | William S. b 1890 |
| | | Hubert Wm J. b 18 |
| | | Thomas D. b 1905 |
| | | George de l. H. b |
| | | A. D. C. J. b 1915 |

| Created | Title Name &c | Parent Son or Heir |
|---------|--|--------------------------|
| 1899 | | Hon William E b 1857 |
| 1915 | | Hon Matthew A b 1904 |
| 1921 | | Hon Chas. H G C b 1885 |
| 1911 | | Hon Colin C F b 1916 |
| 1911 | | Hon John V b 1873 |
| | | (None) |
| | | Hon Timothy J P E b 1927 |
| | | (As Irish) |
| | | (As Irish) |
| | | Hon Richard V b 1892 |
| | | Henry A C G b 1877 |
| | | Capt. Hon C K G b 1888 |
| | | Hon David G b 1914 |
| | | Hon Arthur B J G b 1908 |
| | | Hon Ronald G b 1912 |
| | | (Coburns) |
| | | Hon Christopher E b 1921 |
| | | (As Irish) |
| | | Hon Laurence P b 1896 |
| | | John H b 1911 |
| | | Hon Humphrey P b 1911 |
| 1910 | Harding of Penrhyn Charles Harding K G P C G C R C C S I | David Bertram J b 1915 |
| 1869 | Harding of Penrhyn (Chap) 1st Baron W | Maj. Hon Alexander H I |
| 1876 | Hare See Eastwell Irish Earl | H M V C M C b 1854 |
| 1876 | Harlech Geo Ralph Charles Gresham Gore C K T D b 1855 | (As Irish) |
| 1815 | Harris George R C Harris G C V I G C I E C B T D b 1851 | 1st Hon. Wm G A O-G |
| 1872 | Hartmann See Henniker Irish Baron W | 1st Hon. M I b 1885 |
| 1872 | Hartmann See Henniker Irish Baron W | Capt. Hon Geo V L V H |
| 1872 | Hartmann See Henniker Irish Baron W | M C b 1889 |
| 1872 | Hartmann See Henniker Irish Baron W | (As Irish) |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Edward A b 1912 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Edward L b 1863 |
| 1872 | Hartmann See Henniker Irish Baron W | Adm Wm Stanhope H |
| 1872 | Hartmann See Henniker Irish Baron W | (As Scottish) |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Charles A C b 187 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Lowland H b 1901 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Martyn H b 1901 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon My G H b 188 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Michael Francis E |
| 1872 | Hartmann See Henniker Irish Baron W | b 1914 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Gerald H M b 18; |
| 1872 | Hartmann See Henniker Irish Baron W | (None) |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Hugh V H b 189 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon William H A C b |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Charles M I b |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Charles A b 1906 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Angus H b 1898 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Claude H H b 191 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon James Hans H |
| 1872 | Hartmann See Henniker Irish Baron W | 1918 |
| 1872 | Hartmann See Henniker Irish Baron W | (As British) |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Peter H b 1904 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Hy H S F b 189 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon John S E b 1912 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Miles F H b 191 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Walter D G b 18 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon O C Arcedeckne I |
| 1872 | Hartmann See Henniker Irish Baron W | b 1915 |
| 1872 | Hartmann See Henniker Irish Baron W | Hon William J b 1898 |
| 1872 | Hartmann See Henniker Irish Baron W | (None) |
| 1872 | Hartmann See Henniker Irish Baron W | (None) |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Donough O D b 18 |
| 1872 | Hartmann See Henniker Irish Baron W | (None) |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Andrew H b 189 |
| 1872 | Hartmann See Henniker Irish Baron W | (None) |
| 1872 | Hartmann See Henniker Irish Baron W | Hon Charles I W b 191 |
| 1872 | Hartmann See Henniker Irish Baron W | (None) |

| Created | Title Name &c. | Eldest Son or Heir |
|------------------|---|--|
| 1924 | | Hon Edward H J b 1904 |
| 1906 | | Hon Arthur J b 1880 |
| 1831 | | (As Irish) |
| 1856 | | (As Irish) |
| | | Hon William E b 1904 |
| | | Rev Hon Wm T K b 1847 |
| | | (As Scottish) |
| | | Hon Hugh G K.C. b 1877 |
| | | (None) |
| | | Hon. John F A.E. b 1902 |
| | | (As Scottish) |
| 1924 L. Kingsale | Michael Constantine de Courcy b 1855 s 1895 w | { Lt Col Hon Michael de C., D.S.O. b 1882 |
| 1882 s 1860 s | { Kin na rd { Kenneth Fitzgerald Kinnaird (U.K. Baro) F.R.S. naid, b 1880 s 1923 m | Master of Kinnaird b 1912 |
| | | |
| | | Hon Alex L b 1912 |
| | | Hon Geo Hy C.L. b 1926 |
| | | (As Irish) |
| | | Hon Otway P b 1892 |
| | | Master of Lovat b 1911 |
| | | (As Irish) |
| 1928 | Lugard Frederick John Dealtry Lugard P.C. G.C.M.G. C.B. | (None) |
| | D.S.O. b 1858 1st Baron w | |
| 1929 | L. Ke of Pateham George Lawson Johnston K.B.E. L 1873 | |
| | | Hon Jas L J b 1905 |
| | | Hon William E, b 1902 |
| | | (None) |
| | | Cecil S. A. P b 1862 |
| | | Alex Godfrey M b 1909 |
| | | Hon Joseph P M b 1899 |
| | | Hon. Ronald M.G.H. b '65 |
| | | Hon John R.C.M. b 1923 |
| | | Hon. Joseph H b 1924 |
| | | Hon John W. I.W. b 1922 |
| | | (None) |
| | | (None) |
| | | { b 1921 |
| | | Hon. Hugh Hamon J.S.M. |
| | | Hon Henry M, M.P. b '98 |
| | | (As Scottish) |
| | | (As Irish) |
| | | { b 1882 |
| | | Hon. Edward D. O.B.E. |
| | | Hon. William L. b 1901 |
| | | Hon Dougall M., b 1894 |
| 1905 | | 886 |
| 1712 | | b 1903 |
| 1922 | | J.H. |
| | | { b 1921 |
| 1821 | | As Irish |
| 1866 | | (As Irish) |
| 1887 | | (As Irish) |
| 1874 | | Hon Harry R.W.M. b |
| 1884 | | Hon John Charles |
| | | b. 1924 |

| Created. | Title Name &c | Eldesl Son or Heir |
|----------|---|--|
| 1896 | Ro-mead, Hercules Arthur Temple Robinson b 1866 & 1897 m | (None) |
| 1919* | Lutchen) May Gen., b 1870 & 1911 m | |
| 1876 | Sackville Charles John Sackville West K.B.E. C.B., C.M.G., May Gen b 1870 & 1918 m | Hon. Edward C. S.W., b 1901 |
| 1911 | St. Andrew Alexander F. Fuller Ailand Hood b 1893 & 1917 | Hon. Arth. F. A. H., b 06 |
| 1859 | St. John of Eleas Moubray St. A. Thornton bt. John b 1877, b 1920 m | Hon. John St. J. b 1917 |
| 1871 | Sai dhuert John William Mansfield b 1857, & 1921 m | Arthur H. S., b 1863 |
| 1802 | Sandys Michael Edwin Marcus Sandys, b 1855 & 1904 m | Francis Cecil St. A., b 1895 |
| 1929 | Sankey John Sankey, P.C., O.B.E. b 1866 1st Baron (Lord Hugh Chancellor) | Hon. Powland W., b 1916 (As Irish) |
| 1888 | Savile John Savile Lunsley Savile K.C.V.O., b 1854 & 1896 m. | Master of Saltoun M.C. b 86 (Capt. Hon. Ralph Sheldon M. O.B.E., b 1892 L. Col. A. F. S. Hill, b 1876 (None) Hon. George H. L. S., b 1919 (b 1884 Hon. Geoffrey T. W. F., Hon. Jas. U. G. R. C. Vivian, (As Irish) (b 1863 Master of Sempill, b 1893 (None) Hon. William G. S., b 1922 Rev. Charles S. b 1854 Hon. Charles D., b 1911 (As Irish) Richard U. P. K. S., b 1913 (As Irish) Master of Sinclair b 1914 Hon. Sudhindro S., b 1921 Maj. Hon. Francis Savile C., M.C., b 1889 Rev. Henry L. S. C., b 1862 (As Irish) Hon. Charles F., b 1904 Hon. Spencer H., b 1889 Hon. Basil Fitzherbert, b 08 Hon. Hugh G., b 1904 (None) Hon. Edward S., b 1907 (None) (As Scottish) Hon. James Ian E., b 1908 Lt.-Col. Hon. Joseph A., R.N. M.P., b 1876 Hon. Edward S., b 1882 Hon. Donald H., b 1923 Hon. Gavin C., b Hon. Donald G., b (None) (As Scottish) |
| 1784 | Somers Arthur Herbert Tennyson Cocks, K.C.M.G., D.S.O., M.C., b 1871 | |
| 1750 | | |
| 1917 | | |
| 1840 | | |
| 1886 | | |
| 1911 | | |
| 1839 | | |
| 1893 | | |
| 1796 | Stewart of Garlies See "Galloway" Scott Earl | |
| 1925 | Stonchaven John Lawrence Baird P.C., G.C.M.G., D.S.O., b 1874. | |
| 1318 | | |
| 1911 | | |
| 1920 | | |
| 1836 | Stratheden & Campbell (1841) Alastair Campbell b 1899, & 1918, m. | |
| 1884 | Strathglen, Trevor (Gillie Grant), b 1879 & 1913 m. | |
| 1928 | Strickland Gerald Strickland (Count Della Catena) G.C.M.G., b 1861 1st Baron m. | |
| 1796 | Stuart of Canie St. art See "Mornay" Scott Earl | |

| Year | Name | Rank | Notes |
|------|--|----------------------|----------------|
| 1838 | Richard A F H T | b 1911 | (As 11th) |
| 1834 | Hon John H | b 1907 | |
| 1786 | Hon John H H I | b 1905 | |
| 1893 | Hon David C S M | b 1908 | |
| 1907 | (None) | | |
| | (None) | | |
| | Hon Reginald T | CBE, b 1849 | |
| | Hon Lionel S | b 1918 | |
| | Hon Arthur P S C | b 1914 | |
| | Hon Harold T | b 1919 | |
| | (None) | | |
| | Hon Horace W | CBE, b 1858 | |
| | Hon Chris P C | b 1896 | (Life Peerage) |
| | (None) | | |
| | Hon Charles C B | b 1900 | |
| | Hon Denis T | D.S.O., b 1884 | |
| | (Life Peerage) | | |
| | Master of Lophlichen | b 1917 | |
| | Hon John C B | b 1889 | |
| | (None) | | |
| | Lt Col Hon Chas Trevor | b 1879 | |
| | Hon Chas F H T | b 1928 | |
| | Hon Charles E | b 1899 | (As Scottish) |
| 1904 | Trepelien John Gordon Sandilands | b 1886 & 1915 M | |
| 1909 | Trent Jesse Ryt | b 1850 1st Baron, M | |
| 1917 | Trenon Ivor John Herbert C B C M G | / 1851, 1st Baron, W | |
| 1921 | Trentham Alfred Tristram Lawrence P C | b 1843 1st Baron M | |
| 1880 | Trevor, Charles Edward Hill Trevor | b 1863 & 1923 M | |
| 1881 | Trimston Charles Aloysius Barnewall | ? 1861, & 1891 W | |
| 1881 | Tweeddale Scott Mary | | |
| 1881 | Tweedmouth Dudley C Marjoribanks C M G, D.S.O. M V O | | |



BARONESSSES IN THEIR OWN RIGHT.—Style The Baroness —
Addressed as My Lady



| Created. | Title Name &c. | Eldest Son or Heir |
|----------|---|--|
| " | " | Hon. Miles F. F. H., o |
| " | " | Two co-heiresses (1915) |
| " | " | See Loudoun Countess of |
| " | " | Hon George E. M. B., b 1894 |
| " | " | Earl of Darnley, q v |
| " | " | Three co-heiresses |
| " | " | (As English) |
| " | " | (None) |
| " | " | Master of Gray, b 1894 |
| " | " | Duke of Norfolk, q v |
| " | " | Master of Kinloss b 1889 |
| " | " | Hon Anne R. C., b 1919 |
| " | " | Lady Cynthia Mosley b 1898 |
| 1529 | Wentworth Julia Anne Dorothea Lytton, b 1873 s 1917 | See St. Davids, Viscount |
| 1308 | Zouche of Maryborough Mary Cecil Frankland b 1875 s 1917, m | { Hon Noel Lytton Mil banke b 1900 Hon Thos W. A. F., b 1903 |

Surnames of Peers and Peeresses differing from their Titles.

| | | | |
|--------------------|----------------|-------------|---------------------|
| Abbott—Tenterden | Berry—Camrose | Bruce—Ailes | Cholmondeley — Dela |
| Abney Hastings—Lon | Bertie—Abnaden | bury | mere |
| down | " " " " " " | " " " " " " | " " " " " " |
| Atkinson—Gosford | | | |
| Adderley—Vorton | | | |

| | | | |
|---------------------|------------------------|-------------------|------------------------|
| De Courcey—Kingsale | Fitzmaurice—Orkney | Hamilton—Gordon | Keith—Falconer—Kestons |
| De Grey—Bathampton | FitzPatrick—Castletown | Hamilton—Stanmore | Keith—Tynte—Wharmston |
| De Montmorency— | FitzRoy—Grafton | Hamilton—Russell | |

Egerton—Hilton
 Elliot—German
 Elliott—Drake Colborne
 —Seaton
 Elliot—Minto
 Erskine—Buchan
 Erskine—Mar
 Erskine—Mar & Kellie
 Evans Freke—Curbery
 Evelyn de Moleyns—

Entry
 Faber—Wittenham
 Fauc—Westmorland
 Felling—Devish
 Fellows—Tisbury
 Fellows—De Lunsay
 Finch—Aulford
 Finch—Milton—Banchin
 Fitzalan Howard—
 Beaumont
 Fitzalan Howard—
 Fitz Alan of Derwent
 Fitzalan Howard—
 Herries
 Fitzalan Howard—
 Howard of Glossop
 Fitzalan Howard—
 Norfolk
 FitzClarence—Munster
 Fitzliall—Finnister
 Fitzherbert—Stafford
 —Walsford
 Fitzmaurice—Lane
 —deane

Graham—Atholstan
 Graham—Montrose
 Graham—Tiler—Vorbury
 Grant—Seafell
 Grant—Strathgry
 Gray—Campbell—Gray
 Greenhall—Haresbury
 Greig—Dunborough
 Grey—Grey of Palladen

Hamilton—Abercorn
 Hamilton—Belhaven
 Hamilton—Hulm
 Patrick
 Hamilton—Gunner

Hood—Bridport
 Hope—Lenthogor
 Hope—Morley—Mollen
 Hopwood—South
 Horne—Ruthven—Ruthven
 Howard—Arling
 Howard—Fincham

Jones & Hicks—Brent
 Kaye—Shuttleworth
 Kaye—Shuttleworth
 Kaye—Derbyport

Lysaght—Lisle
 Lytton—Cobham
 Lytton—Westworth
 Metlinock—Banbury
 Lathdonnell
 McDonnell—Antrim
 M. Carel Hogg—Maj
 Mackay—Tacheape
 Mackay—Tach
 Mackenzie—Tulree
 McLaren—Abercorn
 McNeill—Cuthbert
 Maitland—Laird
 Manners—Holland
 Manners—Bulton—Ca
 Manners—Bulton—Ca
 Mansel—Sandhurst
 Marjoribanks—Tul
 Marshall—Finn
 Massey—Clarina
 Maule—Harcourt
 Maxwell—Finn
 Menle—Cliffordham

| | | | | |
|-----------------------|-----------------------|----------|--------------|-------------------|
| Palmer--Sellorne | Saumarez--De Saumarez | von | Thorn | Wynen |
| Parker--Macclesfield | Saile--Marborough | Tyrwhitt | Wilson--Earl | Wynne--Newborough |
| Parker--Worle | | | | |
| Parnell--Congleton | | | | |
| Parsons--Lose | | | | |
| Partington--Doverdale | | | | |
| Paulet--Manchester | | | | |
| Pearson--Cirencester | | | | |

His Majesty's Most Honourable Privy Council.

In this List and in the Lists of Knights of the various Orders of Knighthood and of Knights Bachelor the prefix *Hon.* is printed in *italics* in the case of those who have acquired by public service the right to this distinction. *Hon.* in Roman type is used for all persons entitled by birth or marriage to be so addressed.

| | | | | | |
|--------------------------|------|---------------------------|------|----------------------------|------|
| Aberconway, Lord | 1908 | Cirnes John Robert | 1918 | Greer Sir F. Arthur | 1927 |
| Aberdeen Marquess of | 1896 | Coates Maj. Joseph Gordon | 1928 | Gretton, Col. John, C.B. | 1926 |
| Acland Sir Frank Duke St | 1915 | " " | 1926 | Grey of Fallod n. Viscount | 190 |
| Adamson William | 1918 | Colclough Lord | 1924 | Guest, Capt. Hon. Frank E. | 1920 |
| Addison Christopher | 1916 | Colman Lord | 1924 | " " | 1920 |

| | | | | | |
|----------------------------|------|-----------------------------|------|--------------------------------|------|
| Beverbrook Lord | 1918 | Devart, Earl of | 1913 | Huntly Marq. of | 1881 |
| Bell, Hon. Sir Brian Henry | 1908 | Devonport Vis. | 1909 | Ilchester Lord | 1926 |
| Billon, C.B. | 1908 | Devonshire Duke of | 1905 | Imeson, Hon. Sir J. Rose, C.B. | 1915 |
| Benn Capt. Wm Wedgwood | 1909 | Dickinson Sir William | 1914 | Inverforth Lord | 1914 |
| " " | 1912 | " " | 1920 | Irwin Lord, C.B. | 1922 |
| Birkenhead Earl of | 1902 | Doherty Hon. Charles Joseph | 1920 | Isaacs Hon. Sir Isaac Alfred | |
| Birrell Augustine | 1902 | Dunne Thomas Earl of | 1918 | | |

| | | | | | |
|------|--|------|----------------------|------|-------------------------|
| 1877 | Wyke Rt Hon Sir Wm. Hart Earle, Lt Col Sir Henry East, b r Pabt. Alan Clayton Mbrahm Sir Hussein Ali Curranbhor | 1877 | Frere Maj Sir Bartle | 1878 | Hall, Lt Col Sir Fredk. |
| | Echlin Sir Alfred Henry Edkatein G r Frederic h u J Eden, G r Timothy Cairnt Edgar Sir Edward Mack n Edmonstone Sir Ar hital u | | | | |

Duke Pt. Hon Sir Wm Hart 1677 | Free Maj Sir Bartle, &c 1876 | Hall, Lt-Col Sir Fredk., &c, &c,

1798
1800
1838

1910
1904

1733
1914

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1873

1918
1922

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| 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 | 1864 | 1865 | 1866 | 1867 | 1868 | 1869 | 1870 | 1871 | 1872 | 1873 | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

Orders of Chivalry.



KNIGHTS OF THE ..
 Robins, Garter King



Their Masters.—The King of Italy, the King of Norway, the king of Spain, the king of Sweden, Viscounts.—Fitzalan of Derwent, Greve of Ealingdon.
Barons.—Deborough Hardings of Penshurst
 " " " Chamberlain

• **very Faraday**

See Writings

1570, 1571



KNIGHTS OF THE MOST ANCIENT AND MOST NOBLE ORDER
OF THE THISTLE (1687)-K T
Ribbon Green Metal

OF THE THISTLE AND MOST NOBLE ORDER
 Ribbon Green Motto Deny me I must be a traitor to my country
 THE SOVEREIGN

THEIR ROYAL
Duke of
Arthur of
DUKE - Atho
MANCHESTER -
GOW
EARL - CRE
in one and A
VISCOUNT - N



KNIGHTS OF THE MOST ILLUSTRIOUS ORDER OF
ST PATRICK (1788)-K P
R(Mon. Sky Blue) Mott: G

ST PATRICK (1788) - K P
 Ribbon, Sky Blue *Stoff: Q is separable? (If so shall separate?)*
 THE SOVEREIGN



THE ORDER OF MERIT (1902)—O M *Ribbon: Blue and Gold*

THE MOST HONOURABLE ORDER OF THE BATH (1300)

THE MOST HONOURABLE ORDER OF THE BATH (1300)
 4 of this series in one (remodelled 1775 and 1815, and enlarged (thirteen times more))



4558



● 5. 4. 6.



354



大正 11 年 (C)



4. MR

Handwritten text at the top right edge.

THE DISTINGUISHED SERVICE ORDER (1886)—D S O

Ribbon Red with Blue Edges

Bestowed in recognition of special services in action of commissioned officers in the Army and Royal Air Force. The members are Companions only and rank immediately before the 4th Class of the Royal Victorian Order. A Bar may be awarded for any additional act of service.

THE IMPERIAL SERVICE ORDER (1902, enlarged 1912)—I S O

THE ROYAL ORDER OF VICTORIA AND ALBERT (for Ladies)—V A

Ribbon White Motté

Instituted in 1862 and enlarged in 1864, 1865 and 1880 but no fresh conferments are now made.

THE IMPERIAL ORDER OF THE CROWN OF INDIA (for Ladies)—C I

Instituted 1897

Ribbon Light Blue with White Edges

OTHER DECORATIONS AND MEDALS

Regulations regarding the wearing of Orders, Decorations and Medals will be found in WHITAKER'S YEAR-BOOK. The Distinguished Service Cross—1914—D S C—In | The Territorial Decoration—T D—Established 1902

Ancient Irish Titles.

The first (O'Donnell) Major Erasmus Hubert Malone, A. M., M. P.

**Knights Grand Cross, Knights Grand Commanders, 145
and Knights Commanders**

**OF THE BATH STAR OF INDIA ST MICHAEL AND ST GEORGE INDIAN EMPIRE,
ROYAL VICTORIAN ORDER AND KNIGHTS AND DAMES OF THE BRITISH EMPIRE**

For Knights Bachelor, see pp 157-162

11 Men

Cameron Sir Edward John, K.C.M.G.

Rowen, Sir George Retan K.C.M.G.
 Inver, Sir Edmund E. Holt, K.C.M.G.
 Bowser, Com. Sir Graham J., K.C.M.G.

Budd Sir Cecil L., K.C.M.G.
 Bulfin Gen Sir Edward, K.C.M.G.
 D Sir Dame Aubrey Charlotte Georgiana, D.M.S. R.R.

Carter Sir Edgar Latham K.C.M.G.
 Carter Maj-Gen. Sir Eian E.
 Carter, Lt Col Sir Gordon, K.C.M.G.
 Carter, Maj Gen Sir John E.
 Carter Sir Manuel R. Latham

Power, Maj Gen.
 Power Capt Sir
 Powering Sir Chas.
 Power Maj Gen.
 Power Maj Gen.
 Power Maj Gen. Sir Gerald Farrell
 Power Maj Gen. Sir Joseph

Power Sir Joseph K.C.M.G.

Power Maj Gen. Sir Walter de
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 Power Maj Gen.

The image shows a page from a document, likely a ledger or a list, with a vertical column on the left side containing a series of numbers (1 through 100) and a corresponding list of names. The names are written in a cursive script, and the page is heavily faded and stained. The names are arranged in a column, with some names appearing to be repeated or written in a shorthand manner. The page is otherwise blank, with no other text or markings visible.

1870 OF LAUREL & OAKS

Hudd Sir Cecil L. & Co
Gulfin, 1st St Edward &

Carter Sir Edgar Latham & Co
Carter Maj-Gen Sir Evan Y
Carter Lt Col Sir Gordon & Co

Franker & Co. Sir William
Porter & Co.

August & Co.
Gutcher Maj-Gen Sir George J. &

Clancey, Sir Frederick Wm. & Co
Chancellor Lt Col. & John R. & Co

Knights Grand Cross of the Order

Arthur Admiral Sir Edward
L. K. C. B. 1856

Cooper Sir E. K. C. B. 1856
Cope Sir A. K. C. B. 1856

ent 1800 A. K. C. B.
le nt Sir Cecil K. C. B.
erik Sir D. K. C. B.
erk Rt. Hon. Sir Geo. Russell
C. K. C. B.
lird Col Sir Charles K. C. B.
C. K. C. B. 1856

C. K. C. B. 1856
Cr. K. C. B. 1856
C. K. C. B. 1856
Crosbie Hon. Sir J. K. C. B.
Crosby Sir Josiah K. C. B.
Crowdy Dan K. C. B.
C. K. C. B. 1856

sonker Hon. Sir W. K. C. B.
Jobb Sir Cyril K. C. B.
Jubbe Gen. Sir Alex. K. C. B.
J. K. C. B. 1856
Jollan Sir Alan K. C. B.
Jollan M. H. the Maharaja of
C. K. C. B. 1856

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| Cibson Mr Robert, R.N. | Grey Lt Col Sir Raleigh K.C.B. | Harris Sir Charles G.C.B. K.C.M.G. |
| Gilbert Sir John Wm K.C.B. | — — — — — | Harris Sir C. Alexander K.C.M.G. |
| Gillan | | |
| G. L. an | | |
| G. L. H. | | |
| G. Lett | | |
| Desm | | |
| Girouar | | |
| K. M. | | |

H. S. | Graham K.C.B.

G.C.B. K.C.M.G.

| | | |
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| Goschen Hon. Mr Wm Stan Hy | K. M. G. C. B. K. C. M. G. | H. S. H. S. P. M. A. K. C. B. K. C. M. G. |
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| Green Admiral Sir John F. E. | Livingston Gen Sir Charles H. | Heron, Brig-Gen. Sir Th. |
| K.C.M.G. C.B. | C.B. K. M. G. C. B. | K.C.B. C.B. |

Lady, G. R. R.
 Hon. Sir John William,
 Capt. Hon. Sir Somerset,
 Hon. Sir Geo. Esdaile.

Dorrien, General Sir Horace

Dr. n. and, Lt. W. R. Frank
 Williams, Esq.
 Dr. n. and, Ho. Sir J.
 R. C. M. R.

Duff, Lt. Col. Sir Alexander L.

Fa. quhar, A. (Major) Sir Arthur M.

Friend, Maj. Gen. Rt. Hon. Sir
 Lovick R. Esq. C. B.
 Fripp, Sir Alfred D. Esq. C. B.
 Fry, Sir Frederick M. Esq. C. B.
 1. Fre. Maj. Gen. Sir William Esq. C. B.
 Fuller, Lt. Col. Adm. Sir Cecil T. M.
 7. Fuller, Sir Francis C. B. D. Esq. C. B.
 Fuller, Hon. Sir George W. Esq. C. B.
 Fuller, Sir J. Bampfylde Esq. C. B.
 G. Furse, Dame Catherine, Esq. C. B.
 Furse, Lt. Col. Sir William Thos. Esq. C. B.
 Galt, Sir Edward A. Esq. C. B.
 Gallwey, Maj. Gen. Sir Thomas J.

Ferguson, Sir Walter Esq. C. B.
 Fether, Sir James A. M. Esq. C. B.
 Elcar, Sir Edward Esq. C. B.
 Eliot, Rt. Hon. Sir Charles Esq. C. B.
 Elias, Lt. Col. Sir Edmond R. Esq. C. B.

Fl.
 E.
 En.
 E.
 Fl. Col. Sir James Duncan, Esq. C. B.

Gault, Lt. Sir Maser Frederic
 Gav. Val. D. Esq. C. B.

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| Knorr, Maj Gen Sir Alfred W F | Limpus, Adm Sir Arthur Henry, Maadonogh Lt-Gen Sir George |
| Koon, Lt-Gen Sir Chas F | M W, G.C.B., K.C.M.G. |
| Kruskal, Sr Karl Fredrik | Lindley Hon Sir Francis Oswald, McGowan, Sir Harry D, G.C.B. |
| Kullapur Lt Col H H | Mellon, Dame Anne L., D.C.E. M.D. |
| Kutab Lt Col H H | |
| Kutab Lt Col H H | |
| Kutab H H the Mahar | |
| Lagden, Sir Godfrey Y | |
| Lake Lt-Gen Sir P | |
| Lake Sir Richard | |
| Lamb Sir Harry H | |
| Lamb, Sir John | |
| Lambert, Sir Geo R | |
| Lambert Sir Beuret, has | |
| Lambton Maj Gen H | |
| Lampson Sir Miles | |
| Landon Maj Gen | |
| Lane Maj Gen Sir | |

II II Sultan of, &c.

Hindley, Sir Clement D M & C

Hutchings, Sir Alan, & C

Jones, Sir William John & C

Josh, Sir Moropant & C

Holla, Sir Alfred Claud & C

Holman, Lt Gen Sir Herbert C

Isaacs, Rt Hon. Sir Isaac Alfred

Jackson, Adm of the Fleet Sir Henry

Robert Wm

Kelly, Vice Adm Sir John Don

Kemball, Maj-Gen. Sir George

Kenderline, Sir Charles H, & C

Kennard, Sir Howard Wm, & C

Humphys, Dame Gertrude Mary

Johnston, Col Sir Duncan A

Knapp, Sir Arthur Rowland & C

Knight, Dame Laura, & C

Maj Gen Sir Wynd

Col Sir Henry, & C

Lt Hon. Sir Adrian & C

| | | |
|--|---|--|
| Robinson, Lt Col Sir Thos Bulke, K.C.B., K.C.M.G. | Saunders, Sir James H. K.C.B., Retired, Sir Chasmanal Marshall K.C.B. | Smith, Sir Harry, K.C.B. Smith, Sir James Johnston, K.C.B. Smith, Lt Sir Keith Macgillivray, K.C.B. |
| Rosenthal, Maj Gen Sir Louis K.C.B., K.C.M.G., D.S.O., F.R.S. | Sheel, Gen Sir John S. M. K.C.B. | Stewart, James Ethel Mary, D.S.O., M.B.E. |
| Ross, Sir Archibald John Crumpe K.C.B. | Sheldon, Sir Mark, K.C.B. | Stewart, Maj Gen Sir Verell, K.C. |
| Ross, Sir Ronald, K.C.B., K.C.M.G. | Shippard, General Sir Thomas Dawson Lees, K.C.B., K.C.M.G. | Stewart, Sir Harold Edward, K.C.B. |
| Rostrom, Capt Sir Arthur Henry K.C.B., K.C.M.G. | Sheppard, Sir Wm. Dillwyn K.C.B. | Stuart, Sir John F. C., K.C.B., K.C.M.G. |
| Roswell, Sir Frederick, T.C., K.C.B. | Sherrington, Prof Sir Charles Scott K.C.B., K.C.M.G. | Snow, Lt Gen Sir Thos, K.C.B., K.C.M.G. |
| Rowland, Hon Sir Sidney A. T. K.C.B. | Sherwood, Col Sir Arthur Percy K.C.B., K.C.M.G. | Solomon, Rt. Hon. Sir Wm. Br., K.C.B., K.C.M.G. |
| Royds, Sir Adam Sir Charles Wm R. K.C.B., K.C.M.G. | | |

Stirling Hon. Sir (John) Lancelot Thomas Sir Basil H K.C.B. Vesey Maj Gen. Sir Ivo Lucius

Stuart, Maj Gen Sir John Theo. K.C.B.

Walker, Maj Gen Sir George I
Forester K.C.B.
Walker Sir Herbert Ashcombe
K.C.B.
Walker Sir James K.C.B.
Walker Lt Gen. Sir Harold B
K.C.B. K.C.B. D.S.O.
Wallace Maj Gen Sir Cathbert S
K.C.B. K.C.B.
Wallace Lt Col Sir David K.C.B.
K.C.B.
Wallace Sir Lawrence, K.C.B.
Walker Sir Evelyn Ashley K.C.B.
Wallinger Sir John A. K.C.B.
K.C.B. D.S.O.
Wallington Sir Edward Wm
K.C.B. K.C.B.
Wash Sir Charles Arthur K.C.B.

Leon

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Thompson Sir Percy K.C.B. K.C.B.

Knights Bachelor.

Cray Maj Sir Ernest
 Gray Sir Reginald K.C.
 Crease, Lt Col William Edward
 Crease, Hon Col Wm. H.
 Crease, Sir Frederick L.
 Crease, Sir J. Little K.C.
 Greenwood Sir Francis John
 C.B.
 Greer Rt. Hon Sir F. Arth.
 Greer Sir Harry
 Greer Sir P. R. Len.
 Gregory Sir John Hope
 Gurney
 Gregory Sir Richd. Arman

Keymer Sir Daniel Thos.
 K.C.
 Kilman Sir Sidney
 Kilman Sir Septim.
 King Sir Gen Sir C. Wallis.
 K.C.
 King Sir Frederic Truly
 C.B.

J James
and A.
Henry
Jas. Wm.
J. J. C.

St. H.
H. H. H.
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| Peter Sir John Cl re | | | |
| Peters, Sir George | | | |
| Prine Sir David | | | |
| Pro C.B.E. | | | |
| Petrie Prof. Sir W | | | |
| M F r.e. | | | |
| Peter Sir Ernest W | | | |
| Intigrew Sir Ar | | | |
| Huber | | | |
| Philip Lt Col Sir R | | | |
| Wm | | | |
| Phlipps Sir Wl | | | |
| Herbert | | | |
| Phillips Sir William Wat | Feod C. L. r. South | Charles Hy | Quingo Sir William |
| Wm | Re Sir W. Red. Co. W | Sargent Sir Alfred Ron | Smalley Sir Herbert W |
| | Re Sir Harry | Sargent Sir Percy W G | Smith Sir Cecil Harcourt |

Lorden Sir John William
 Loigher Sir Lewis M P
 Love Sir Joseph Tifton
 Low Sir Austin C B
 Low Sir Sidney James
 Lowry Sir Arthur Primrose
 Lucas Hon Sir Edward
 Luke
 - cmc

THE VICTORIA CROSS 1st C

Ribbon Crimson for all Services.

For CONSPICUOUS BRAVERY Instituted January 29th, 1856



- - - - - + + + + + in 1856 on the close of the Crimean War, and extended in

A List of SERVING RECIPIENTS

Addison Rev Wm R Lt F (C P) *Gr*
 Adam Capt Tom Edwin (Bedf P) *Gr*
 Agar Com Augustine W B DSO (P) *Gr*
 Alexander Maj Gen E W C B C M A

Gr War
 Allen, Maj Wm Barnaley DSO

(R.A.M.C.) *Gr War*

Amey Corp William (R War R) *Gr*

Andrew Capt Leslie W (R Z Inf)

Angus Lt Col W (H L I) Lt H's

Arnold Napper Adam (R E) *Gr*

Anten Lt Col Harold DSO,

Gr War

Axford Lt Col Thomas L. M M (Au

War

Aylmer, Lt Gen Sir Fenton J

(R.E.), Hunza-Nagar

Barnett, Lt Col Cyril R C (R Z I) *Gr*

Bark Maj David M Wm DSO M

Fus) *Gr War*

Bees, Capt W (Canad Inf) 8 A.M.

Beesley Mr William (Rif Fgh) *Gr*

1st, Corp H, *Gr War*

Bekker Capt D W (I R B) *Gr War*

Bell Lt Col F W (W Australia) 8 Africa

Bell, Capt Edward D (Brit Columbia R.),

Gr War

1915 Coll ne Sgt John, DCM (R. Welch Fus) Lt

1904 War

1905 Collman Lt Col William H, DCM, M M

1917

| | | | |
|-----------------------|-----------------------|-------------------------|------------------------|
| St H S Owall | John the Honour Judge | Wallis St Maurice L C U | Williams Sir J Thos |
| Stone Sir Charles | Sir Alfred A K | Wallis Rt Hon Sir J E | Williams Sir John John |
| Stur Sir Joseph Henry | Falk Sir W A K Peter | Power | C K K R C |
| City | T O K M S R L L | | Gold Star |

Gold Star
Silver J

or Wal
C K K
J R K
M R K

W R K

Watkins Sir John James

Watt Sir Rolt Clement

Woolley Col Sir C W

Woolley Sir Edward Graham

Woolley Sir Henry J C W

Woolley Sir Arthur John Verney Lt Col Sir Ralph

Woolley Sir William H W



THE NEW ZEALAND CROSS—N Z C.

Ribbon, Crimson FOR CONSPICTOR'S BRAVERY • INSTITUTED 20 March, 1869.

| | | | | | |
|--------------|----------------|-----------------|----------------|------------|---------------|
| Benjamin | 20 March 1869 | Lingard William | 20 March, 1869 | Roberts, J | 20 March 1869 |
| W. George .. | 20 April, 1869 | | | | |

"Right Honourable"—Members of His Majesty's Most
Designated
Example

| | | | |
|---|------|---|------|
| Dyer Corpl Philip W M (Aust. Inf) Gt War | 1918 | Gregg Lieut Milton F M C (Inf Bde) (No 3) | 1918 |
| Dyer Corpl John Thomas (S. Lancs R.) Gt War | 1918 | Gregg Sgt William M M (Rif Bde) (No 3) | 1918 |
| | 1918 | Gregg Sgt Robert Cuthbert (Aust. Inf) Gt War | 1918 |
| | 1918 | Grimboldston Lt Col M S William H (K.O. 9 R.) | 1918 |

1900
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1919

1918 Williams Pte John (S Wales Bord.) Forkes
1917 D. J.

1918
1919
1920

1918 Woods Pte J P (Aunt Inf) C. J. H. H.
1919 Woodley Pte Geoffrey H. H. H. (Qn Vic Rlf.)
1917 Gt. H. H.

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COST OF THE GENERAL ELECTION, 1924

At the General Election of 1924 there were 1,428 candidates for the 615 seats. The average expenditure of each Candidate was £645, the highest amount spent being £1,479 (Senior Member for Midham) and the lowest £1 (University Member for Northern Ireland).

| Division | Members | Expenses |
|------------------|---------|----------|
| England | 468 | £780,225 |
| Wales and M. N. | 36 | 49,295 |
| Scotland | 74 | 85,440 |
| Northern Ireland | 23 | 6,199 |
| Total | 615 | £921,159 |

| | 1923 | 1924 | 1925 |
|----------------------|------|------|------|
| Conservative | 258 | 413 | 259 |
| Labour and Socialist | 291 | 250 | 287 |
| Liberal | 155 | 39 | 59 |
| Constitutionalist | — | 7 | — |
| Independent | 6 | 4 | 0 |
| Irish Nationalist | 2 | 2 | — |
| Winn Felo | 1 | — | — |
| Speaker | 2 | 2 | 1 |
| Total | 615 | 615 | 615 |

His Majesty's Ministers.

167

(Appointed June 8th, 1929)

CABINET MINISTERS.

| | | |
|--|--|--------|
| <i>Prime Minister and First Lord of the Treasury</i> | | |
| <i>Lord President of the Council</i> | | |
| <i>Lord High Chancellor</i> | | |
| <i>Lord Privy Seal</i> | | |
| <i>Chancellor of the Exchequer</i> | | |
| <i>Secretaries of State</i> | | |
| <i>Home Affairs</i> | The Rt. Hon. John R. Clynes M.P. (b. 1869) | £5,000 |
| <i>Foreign Affairs</i> | The Rt. Hon. Arthur Henderson M.P. (b. 1863) | £5,000 |
| <i>Domestic and Colonial Affairs</i> | | |
| <i>War</i> | | |
| <i>India</i> | | |
| <i>Scotland</i> | | |
| <i>Air</i> | | |
| <i>First Lord of the Admiralty</i> | | |
| <i>President Board of Trade</i> | | |
| <i>Minister of Health</i> | The Rt. Hon. Arthur Greenwood M.P. (b. 1880) | £5,000 |
| <i>President Board of Inland Revenue</i> | The Rt. Hon. Sir Charles P. Trevelyan Bt. M.P. (b. 1870) | £5,000 |
| <i>Minister of Agriculture and Fisheries</i> | The Rt. Hon. Noel Buxton M.P. (b. 1869) | £5,000 |
| <i>Minister of Labour</i> | The Rt. Hon. Margaret Grace Bondfield M.P. (b. 1873) | £5,000 |
| <i>First Commissioner of Works</i> | The Rt. Hon. George Lansbury M.P. (b. 1859) | £5,000 |

MINISTERS NOT IN THE CABINET

| | | |
|--|---------------------------------|--------|
| <i>Secretary of State (for the Colonies)</i> | | £5,500 |
| <i>Under Secretary (Health)</i> | Thomas Johnston, M.P. (b. 1882) | £5,000 |
| <i>Lord Advocate, Scotland</i> | William Macdonald, Esq. | £5,000 |
| <i>Solicitor-General, Scotland</i> | J. L. Watson, Esq. | £5,000 |

*Political Ministers of the Royal Household

* The offices of Lord Chamberlain, Lord Steward, Master of the Horse and three of the six Lords have remained vacant since the re-constitution of the Royal Household, 1924, and these appointments do not now exist.

| Date. | Prime Minister | Exchequer | Att. Gen. | 1870 | 1871 | 1872 |
|---------------|----------------|------------------|-----------------|------------|------------|--------------------|
| Apr. 22, 1852 | G. Canning | C. Canning | S. Bourne | Dudley | Palmerston | Goderich |
| Sept. 3, 1852 | Goderich | J. C. Herries | Lansdowne | Dudley | Palmerston | W. Hartston |
| Jan. 25, 1853 | Wellington | H. Goulburn | R. Peel | Dudley | Palmerston | R. Huskisson |
| Nov. 22, 1853 | Grey | Althorp | Melbourne | Palmerston | Palmerston | W. & Harrow |
| July 18, 1854 | Melbourne | Althorp | Duncannon | Palmerston | Palmerston | Goderich |
| Dec. 26, 1854 | Sir R. Peel | Sir R. Peel | H. Goulburn | Wellington | Palmerston | Hon. E. St. John |
| Apr. 18, 1855 | Melbourne | T. & Sir R. Peel | Lord J. Russell | Palmerston | Palmerston | Hon. T. S. Russell |
| Sept. 6, 1855 | Sir R. Peel | H. Goulburn | Sir J. Graham | Aberdeen | Palmerston | Palmerston |
| July 6, 1856 | Ld. J. Russell | Sir C. Wood | Sir G. Grey | Palmerston | Palmerston | Palmerston |
| Feb. 27, 1857 | Grey | B. Disraeli | S. H. Walpole | Palmerston | Palmerston | Palmerston |
| Dec. 28, 1858 | Aberdeen | W. E. Gladstone | Palmerston | Palmerston | Palmerston | Palmerston |
| Feb. 20, 1859 | Palmerston | W. E. Gladstone | Sir G. Grey | Palmerston | Palmerston | Palmerston |

| | | | | | | |
|---------------|-------------------|--------------------|------------------|--------------------|-----------------|-----------------|
| Privy Seal | H. E. G. George | A. Chamberlain | F. Shortt | A. J. Balfour | W. S. Churchill | St. John |
| | A. Chamberlain | Sir R. S. B. B. B. | | Curzon | Sir L. W. Evans | W. S. Churchill |
| Oct. 21, 1890 | A. Chamberlain | R. Baldwin | W. C. Bridgeman | Curzon | Derby | Devonshire |
| May 20, 1891 | A. Chamberlain | A. Chamberlain | W. C. Bridgeman | Curzon | Derby | Devonshire |
| Jan. 20, 1892 | J. R. Ma. (small) | P. Snowden | A. Henderson | J. R. Macdonald | W. S. Churchill | J. R. Macdonald |
| Nov. 4, 1892 | A. Chamberlain | W. S. Churchill | Sir W. J. Thorne | Sir A. Chamberlain | W. S. Churchill | Dom. & Col. |
| Nov. 18, 1892 | A. Chamberlain | P. Snowden | J. R. Clynes | A. Henderson | W. S. Churchill | Devonshire |

Mr. Baldwin's Ministry.

(November 4th 1924 to June 8th, 1929.)

CABINET MINISTERS

| NAME | DATE | AMOUNT |
|--|--|--------|
| Prime Minister and First Lord of the Treasury | The Rt. Hon. Stanley Baldwin, M.P. (1887) | £5,000 |
| Lord Privy Seal and Leader of the House of Lords | The Rt. Hon. Marquess of Salisbury K.G. G.C.V.O. C.B. (1887) | £5,000 |
| Lord President of the Council | The Rt. Hon. Earl of Halsbury K.G. (1887) | £5,000 |
| Lord High Chancellor | The Rt. Hon. Lord Halsbury K.G. (1887) | £5,000 |
| Chancellor of the Exchequer | The Rt. Hon. Winston Spencer Churchill, M.P. (1874) | £5,000 |
| Secretaries of State — | | |
| Home Affairs | The Rt. Hon. Sir William Jowson M.P. (1885) | £5,000 |
| Foreign Affairs | The Rt. Hon. Sir Austen Chamberlain K.C.M.G. (1885) | £5,000 |
| Colonial Affairs | The Rt. Hon. Leopold Charles Manners (1887) | £5,000 |
| War | | 000 |
| India | | 000 |
| Naval | | 1,000 |
| Air | | 1,000 |
| President of the Council | | 1,000 |
| President of the Board of Trade | | 1,000 |
| Minister of Health | | 1,000 |
| Minister of Education | | 1,000 |
| Minister of Agriculture | | 1,000 |
| Minister of Labour | | 1,000 |
| First Lord of the Admiralty | | 1,000 |
| Chancellor of the Duchy of Lancaster | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
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| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
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| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
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| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
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| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
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| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,000 |
| Secretary of State for the Navy | | 1,000 |
| Secretary of State for Air | | 1,000 |
| Secretary of State for the Colonies | | 1,000 |
| Secretary of State for India | | 1,000 |
| Secretary of State for War | | 1,0 |

stalled in a bookmaker's office would be levied | moving the second reading in the House of Commons

THE seventh Parliament of King George V and the Fourth Parliament of Great Britain and Northern Ireland was elected on May 31, 1927. The General Election had returned 287 Labour, 260 Conservative, 59 Liberal, and 9 Independent Members as shown in the following table —

| | DISTRIBUTION OF MEMBERS | | | | PARTY STRENGTH (June 1927) | | |
|------------------|-------------------------|----------|-------------------|------------------|----------------------------|------------|----------|
| | Counties | Boroughs | Univer- sities | Total Members | Government | Opposition | Majority |
| England | 230 | 255 | 7 | 492 | 228 | 264 | -40 |
| Wales & Monmouth | 24 | 11 | 1 | 36 | 25 | 11 | +14 |
| Scotland | 38 | 33 | 3 | 74 | 38 | 36 | +2 |
| Northern Ireland | 8 | 4 | 1 | 13 | — | 13 | -13 |
| Total | 300 | 303 | 12 | 615 | 291 | 324 | -41 |

ALPHABETICAL LIST OF MEMBERS OF PARLIAMENT

The following is a list of the Members of Parliament elected at the General Election of May 31, 1927.

I

| | Majority | | Majority |
|------------------------------------|----------|--------------------------------|----------|
| Adams Rt Hon W (Lab) 576 Fife West | 11 620 | Bellairs Com C (C) 351 Malton | 3 835 |
| Adams W M (Lab) 415 Can. W. K. | 11 333 | Bellamy Albert (Lab) 644 Ayr | 3 497 |
| Addison Rt Hon C M D (Lab) 454 | 11 161 | Benn Capt Rt Hon Welwood (Lab) | |
| See also: | | | |
| Alison North Capt C (C) 103 B | | | |
| Albery I. J. M. O. (C) 349 Gr. | | | |
| Alexander Rt Hon A. V. | | | |
| See also: | | | |
| Alexander Brig Gen. Sir W. | | | |
| C.M.G. D.S.O. T.D. (C) | | | |
| Glasgow | | | |
| Allen Sir J. Sandeman (C) 16 | | | |
| Allen W. E. D. (C) 606 Belfast | | | |

Alphabetical List of Members of Parliament

175

[illegible]

| | <i>Mr.</i> | <i>Mr.</i> |
|-----------------------------|------------|------------|
| Purbrick, R. (C) 148 Walton | | |
| Pybus P J (L) | | |
| Quibell, D J E | | |
| Ramsay, T B | | |
| Ramsbotham, F | | |
| Rathbone, Elea | | |
| <i>resist</i> | | |
| Rawson Comm | | |
| <i>Brighton</i> | | |
| Raynes W R | | |
| Reid, D D (C) | | |
| Remer, J R (C) | | |
| Rentoul, Sir G | | |
| Reynolds, Sir I | | |
| Pichards R. (I) | | |
| Pichardson, Col | | |
| 433 <i>Chertsey</i> | | |
| Richardson F | | |
| <i>Squag</i> | | |
| Riley, Ben (Lab) | | |
| Riley F F (La) | | |
| Ritson J (La) | | |
| Roberts Rt H | | |
| <i>Bromwich</i> | | |
| Roberts Sir Sam | | |
| Robinson Sir I | | |
| Rodd Rt Hon | | |
| <i>Govt</i> (C) | | |
| Romeril, H G | | |
| Rosbotham S I | | |
| Rosa Maj R. (C) | | |
| Rowson G (La) | | |
| Runciman Rt I | | |
| Russell, Miss A | | |

Figures following name of constituency denote the number of electors (*M* = Men *W* = Women)
C = Conservative *Const* = Constitutionalist *L* = Liberal *Lab* = Labour *Ind* = Independent
N = Scottish Welsh or Irish Nationalist *Com* = Communist. * Denotes a Member of the late Parliament for the same and † for a different Constituency

England

LONDON BOROUGH

| | |
|---------------------------------------|--------|
| CITY OF LONDON | |
| <i>M</i> 25 196 <i>W</i> 21 273 | |
| *Sir V Bonarrot St. C | 26 149 |
| *E C Grenfell C | 26 092 |
| † O Jacobsen L | 4 579 |
| BATTERSEA | |
| North <i>M</i> 24 124 <i>W</i> 26 336 | |

FULHAM

| | |
|--------------------------------------|--------|
| East <i>M</i> 23 247 <i>W</i> 27 819 | |
| *Lt Col Sir K P P† | |
| †a Morgan O B E C | 15 130 |
| J Palmer Lab | 13 425 |
| J H Greenwood L | 5 552 |
| West <i>M</i> 23 435 <i>W</i> 27 175 | |
| Dr G E Spero Lab | 16 190 |
| *Sir Cyril S Cobb K B E | |
| <i>M</i> 20 C | 12 071 |

KENSINGTON

| | |
|---------------------------------------|--------|
| North <i>M</i> 25 584 <i>W</i> 33 576 | |
| 30 <i>I</i> R West Lab | 29 771 |
| *P G Gates C | 25 571 |
| Lady Stewart I | 5 516 |
| South <i>M</i> 22 183 <i>W</i> 48 410 | |
| 31 *Sir W H Dawson, K B E, | |
| C | 28 049 |
| Sir Hugh Seely Bt. L | 7 570 |
| †a Morgan O B E C | |

| | |
|-------------------------|-------|
| <i>M</i> 20 <i>W</i> 26 | 4 865 |
|-------------------------|-------|

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|-------------------------|-------|
| <i>M</i> 20 <i>W</i> 26 | 4 865 |
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| | |
|---|--------|
| Norwood <i>M</i> 25 440 <i>W</i> 32 281 | |
| 5 *Sir W Greaves Lord | |
| K C C | 19 281 |
| W O B Reeves Lab | 11 048 |
| E S Layton L | 7 823 |

LEWISHAM

| | |
|--------------------------------------|--------|
| East <i>M</i> 35 085 <i>W</i> 41 476 | |
| 6 *Lt Col Sir Asheton | |
| POWELL & COY LTD | 27 208 |
| J C Wilmut Lab | 22 826 |
| Sir E Pento K B E | 8 799 |
| West <i>M</i> 27 374 <i>W</i> 33 817 | |
| *Sir Phil p Dawson C | 20 870 |
| Mrs C M Wadham Lab | 20 550 |
| A B R Roberts L | 20 550 |

| | |
|-------------------------|--------|
| C A Smith Ph D Lab | 15 009 |
| <i>M</i> 20 <i>W</i> 26 | 9 309 |

HAMPSHIRE

| | |
|-------------------------|-------|
| <i>M</i> 20 <i>W</i> 26 | 9 309 |
|-------------------------|-------|

| | |
|---------------------------------------|--------|
| PADDINGTON | |
| North <i>M</i> 22 452 <i>W</i> 27 733 | |
| 38 B Bracken C | 23 876 |
| J W Gordon Lab | 23 348 |
| R Myer L | 6 723 |
| South <i>M</i> 29 768 <i>W</i> 31 354 | |
| 39 *Capt Rt Hon H L | |
| A G C C | |
| V D P O R N L C unop | |

| | |
|---|-------|
| <i>M</i> Harcourt L | 5 559 |
| Peckham <i>M</i> 22 633 <i>W</i> 25 772 | |
| *J Beckel | |
| Dr J D | |
| G I Phil | |
| CHRYSTAL | |

ISLINGTON

| | |
|--------------------------------------|--|
| East <i>M</i> 22 452 <i>W</i> 27 733 | |
|--------------------------------------|--|

POPLAR

| | |
|---------------------------------|--|
| <i>M</i> 22 452 <i>W</i> 27 733 | |
|---------------------------------|--|

EVANS L

6 921
4 267David A Ross Lab
C Picciotto L26 247
10 560
5 320

[illegible]

| CROYDON | | ORKNEY LARMOUTH | |
|-----------------------------|--------------------------|-------------------------|--|
| North, M 22 574 W 28 999 | North, M 34 117 W 40 718 | M 26 272 W 29 899 | |
| 92 Norman Ingell Lab 17 873 | 108 Lt Col G E M Mason | 123 Arthur Harb rd L 13 | |
| E J 9 H Ramsden | | | |
| O B E C | | | |
| J B Hobbsian I | | | |
| South M 25 596 H 31 | | | |
| 93 H Hurst Lab | | | |
| G W Ferrand C | | | |
| I Ogden L | | | |
| BRIGHTON M 50 823 W | | | |
| 94 Comd Sr A Cooper Law | | | |
| son C | | | |
| 95 Maj Ft Hon G C | | | |
| Trvon C | 46 287 | | |
| Rev J S Cheshire Lab | 29 494 | | |
| W Molau e Lab | 28 770 | | |
| L B Dallow I | 14 770 | | |
| J C Bru let ell Bruce I | 23 616 | | |
| BAT TOL | | | |
| Central, M 22 542 W 25 542 | 111 | | |
| 96 J A Alpess Lab | 20 749 | | |
| Sir T W H I skt | | | |
| C B R K C C | 26 544 | | |
| East M 22 485 W 21 554 | | | |
| 97 H | | | |
| I d L | 12 932 | | |
| J O M Skelton I | 6 723 | | |
| South M 24 306 | | | |
| 99 A G Haiklen | | | |
| Sh W Bad loo R | | | |
| West, V 24 033 | | | |
| 100 C T C l e el | | | |
| Lady Clare A | | | |
| Lab | | | |
| W Y Marcy L | | | |
| CAMBRIDGE M 17 4 | | | |
| 104 Sir G D C A | | | |
| K R F C | | | |
| D F Hardman | | | |
| Sr Ma rico | | | |
| K R F L | | | |
| CARLISLE M 15 62 | | | |
| South West M 22 962 W | | | |
| 126 John Arnett Lab | | | |
| H Preut Grotian C | | | |
| Maj H A Crowe | | | |

| | | |
|---|---|---|
| <p> Like Central M 25 422 H 30 005 Ho L Riel and De nan Lab. 27 321 H Wilson LL D C 25 058 M J Landa L 5 607 North V 24 435 H 30 993 39 Capt Oskert Peaks 19 661 T McCall Lab 11 180 T F Harvey I 9 944 North East V 24 701 H 29 773 </p> | <p> Edgehill V 20 428 H 22 088 351 J H Hayes Lab 27 650 Sir Hugo Rutherford Bt C 21 622 A D Dennis L 24 581 Everton M 26 846 H 18 584 252 Berwe t Hall Cuine Lab 24 234 Margaret Beavan C 12 667 Exchange M 25 524 H 26 296 254 S r J a e s He olde Bt C 27 279 W A Robb son / ab 26 920 Fairfield M 20 828 H 21 744 </p> | <p> Rusholme V 29 038 H 23 251 170 S r F B Merr dan O B K C C 24 270 Phil p Uncdalla L 20 958 J Adhead, Lab 8 060 Withington M 29 422 H 34 072 272 E D S ion L 20 948 Sir I Watts M D C 20 003 Dr J Robinson Lab 7 853 MIDDLESBROUGH East M 28 722 H 17 800 172 Ellen C Walk nson Lab 22 215 E J Young L 9 026 J W Brown C 5 278 West M 22 661 H 22 254 173 F K ngals Gr Bth L 14 674 A Flus Lab 13 328 A E Baucher C 8 137 MORPETH V 28 457 H 26 609 174 Eder ezer Edwards Lab 25 508 Irene Ward C 9 206 J Ritson L 6 858 NELSON AND COLNF M 25 931 H 30 534 175 Rt Hon A C ven wood, Lab 28 333 L T Thorp C 28 236 NEWCASTLE UNDER LYME M 29 504 H 29 980 176 Col I Hon J C Henty wood p u L ab 20 931 C A Talham C 9 021 NEWCASTLE UPON TYNE Central M 20 824 H 20 844 177 Rt Hon Sir C P Tre velyan Bt Lab 17 580 Viscount Adare C W C B E C C 23 162 East M 21 959 H 21 838 178 S r W Aske Bt L 17 856 M H Connolly Lab 16 241 North M 20 334 H 25 386 179 S r Gratia Doyle C 27 062 E Coll Lab 7 573 Dr J R Creighton L 6 800 </p> |
| <p> South East M 22 947 H 24 828 J H Slesser K 22 402 J C Spurr C 7 385 (Bye elect O A W 29 291 242 J M l er I al 11 804 W Brain Cu n 512 West M 23 577 H 26 530 243 T H Sta nford Lab 28 765 G W Martin, C 28 129 P Cleworth L 7 892 LIVERPOOL East M 25 243 H 29 122 244 E F Wime Lab 22 533 245 A J de V Loder C 23 801 L Lawson L 8 054 South V 23 587 H 30 303 245 Capt C W a rcho se C 28 343 H B Lsher Lab 15 068 H G Purchase I 8 812 West M 23 085 H 28 332 246 I W Lethick La r rence Lab 22 635 P V Emrys Evans C 20 601 C W Hartshorn L 7 617 Lvi M 24 559 H 26 423 247 J Tinker Lab 25 635 C H Grundy C 20 942 J Hardy L 8 435 LYTTON East M 26 844 H 28 214 </p> | <p> Valton V 24 073 H 27 202 258 I P r b r a C 16 623 E A P P w e Lab 16 395 G H Jones L 2 857 Wavertree V 25 018 H 28 971 250 J A T ne C 26 880 S L Treleven Lab 23 585 H R Rathbone L 21 723 West Derby M 24 918 H 29 827 260 Sir J am nson Allen C 26 794 W H Moore, Lab 24 324 A P Jones I 8 365 West Toxteth M 22 021 H 24 667 261 J Cobb i e Lab 29 988 G Watson C 26 309 MANCHESTER Ardrwick M 22 280 H 27 898 262 T Lo th Lab 20 041 Mary L A Jones C 23 177 Black ey W 27 031 H 29 550 263 P W Ol er, O B Y L 21 006 M J H Briggs C 20 218 M A Yonke Lab 9 091 Clayton V 23 012 H 24 004 </p> | <p> 176 Col I Hon J C Henty wood p u L ab 20 931 C A Talham C 9 021 NEWCASTLE UPON TYNE Central M 20 824 H 20 844 177 Rt Hon Sir C P Tre velyan Bt Lab 17 580 Viscount Adare C W C B E C C 23 162 East M 21 959 H 21 838 178 S r W Aske Bt L 17 856 M H Connolly Lab 16 241 North M 20 334 H 25 386 179 S r Gratia Doyle C 27 062 E Coll Lab 7 573 Dr J R Creighton L 6 800 </p> |

| TYNEMOUTH | | | | | |
|-----------------------------|----------|---------------------------|----------|--------------------------------|--------|
| M 18 760 | W 19 461 | | | | 35 483 |
| 133* May A West Russell C | 11 785 | | | | |
| R. Irwin L | 10 545 | | | | 23 231 |
| J. Barr Lab | 9 503 | | | | 16 029 |
| WAKEFIELD M 15 336 | W 16 727 | W 25 001 | W 33 563 | Mrs K. Townson, Lab | 8 899 |
| 134 G. H. Aheron I Lab | 13 393 | 250 Sir J. C. Power Bt, C | 21 902 | CAMBRIDGE. | |
| *R. G. Ellis C | 10 180 | T. Braddock Lab | 9 924 | M 13 680, W 13 795 | |
| L. Parish L | 3 875 | A. Peters L | 9 202 | 185* Capt R. G. Driscoll, | |
| WALLASEY M 25 614 | W 33 461 | WOLVERHAMPTON | | M. C. | 13 306 |
| 135* Sir F. B. Chadwick C | 21 455 | Bilston M 21 296 | W 21 797 | G. I. Garratt Lab | 11 256 |
| H. Phillips L | 13 618 | 131* J. Baker Lab | 18 079 | J. W. Payne, J | 10 904 |
| J. D. Mack, Lab | 21 544 | Maj. G. J. Thompson | | CHESHIRE | |
| WALSLEY M 24 583 | W 25 595 | D. S. C. | 13 635 | Altrincham, M 31 909, W 37 698 | |
| 136* Rt. Hon. Margaret Bond | | G. Butler L | 4 475 | | |
| held Lab | | Part M 21 064 | W 21 157 | | |
| Maj. W. Warrin C | | | | | |
| S. Phillips L | | | | | |
| W. Handington C | | | | | |
| WALSALL M 29 229 | W | | | | |
| 137 John James McSha | | | | | |
| Lab | | | | | |
| *William Preston C | | | | | |
| Rt. Hon. J. I. Mac | | | | | |
| namara L | | | | | |
| WALTHAMSTOW | | | | | |
| East M 18 344 | W 19 | | | | |
| 138 H. H. Wallace Lab | | | | | |
| T. J. Fitzalan Hope C | | | | | |
| J. S. Bridges L | | | | | |
| West M 20 535 | W 19 | | | | |
| 139 F. La T. McKee Lab | 10 002 | | | | |
| *Maj. H. E. Crawford L | 9 470 | ENGLISH COUNTIES | | Knutsford M 24 130, W 28 349 | |
| F. C. Bramston, C | 4 184 | (Excluding Monmouthshire) | | 140* Brig.-Gen. E. Makers | |
| WARRINGTON | | PREFECTURE | | C. B. D. S. C. | 22 605 |
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|--|--|--|---|--|--|---|--|--|--|--|--|--|--|--|
| Pewryn and Falmouth, W 22 848 H 26 922 | | | | | | | | | | | | | | |
| Sir Andrew Caird K.B.E. O W E Arnold For Lab CUMBERLAND Northern M 22 201 | | | | | | W A Pearnley Whit tingston C - 6 221 H A Haslam L - 5 265 | | | | | | | | |
| 11 L Nazim L J 538 Workington M 19 806 H 19 109 | | | DORSET Eastern V 23 124 H 28 632 | | | 314 Lt Col C A Howard E V I R O C - 17 094 S W Robinson L 13 034 M 21 8 H 21 1 - 121 8420 | | | | | | | | |
| 281 Tom Cape M B N Lab 20,592 S r John Mellor Bt | | | 299 t E Glaue / L 17 810 21 R Hall Cairn C N V | | | | | | | | | | | |
| 400 11 L V 6 L 200 202 303 Dr J V 91 aw L 7 766 H V A. Raynes C 6 258 North Eastern. M 25 016 H 23 702 | | | | | | | | | | | | | | |
| | | | | | | 320 R. A Butler, C - 17 561 W Cash Lab 8 642 A M Mathews L 8,307 South Eastern W 38 416 H 38 051 321 J R O'Neill Lab 18 796 H W Looker C 10 C J Veness L 13 GLOUCESTER Gloucester and Tewkesbury M 20 112 H S 112 C W 111 W W C. M | | | | | | | | |

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|---|--|---|
| <p> Royston M 21 847 W 24 400 369° Sir H A Stretfe 370° Sir F Water 371° Cu J C Leigh Lab 8 142 F A Sellers I 7 718 Weesthoughton M 20 414 H 21 235 372° R J Dace Lab 22 305 J W Lomas C 9 855 E E Canney I 4 231 Widnes M 22 238 H 21 989 373° G Cameron Lab 19 125 Dr G C Clayton C R C 18 376 SECKSTER HIRF Bosworth M 23 733 H 24 129 374° S R B T a Edge I 17 044 J Minto Lab 15 244 S L Elbourne C 8 851 Harborough M 22 161 H 25 035 375° La l of Castlestuart K C C 16 164 Y J Wise Lab 12 620 G Nicholls L 9 846 Loughborough M 21 230 W 22 324 376° E Hunter Lab 14 854 F G Fye C 11 220 P G Hines L 10 044 Melton M 22 565 W 24 831 </p> | <p> Enfield M 20 700 H 22 221 386° Maj I Salmon C H Beaumont I C E P Taylor I W J Sholl I id Hendon M 37 385 387° Maj Rt Hon Cundiffe L ster M C C Dr R Lyons L Mrs Corbett Ashby I 13 449 Spelthorne M 26 456 H 29 836 388° Sir P Pidd lch Rt C 12 777 Y W Temple Lab 11 946 W A Hillier L 7 727 Twickenham M 28 977 H 33 287 389° Rt Hon S R H Jones son Hicks Rt C 21 087 T J Mason Lab 15 221 F G Paterson I 7 246 (Bye election Aug 8 1929) 389° Sir Joh I Fery 201 K B K C 14 705 I J Mason Lab 14 202 F G Paterson L 1 920 Uxbridge M 28 850 H 30 743 J I </p> | <p> NORTHUMBRIAN Berwick upon Tweed M 18 236 H 20 291 401° Capt A J A Todd L 12 536 C I P Williams L 11 372 L Kegie Lab 5 401 Hexham M 16 727 W 16 577 402° Lt Col D C Brose C 11 069 Lt Hon Sir J Dyke Acland Bt L 9 103 E O Dunsico Lab 8 135 Wansbeck M 33 233 W 34 107 403° G H Sharr Lab 27 930 Lt Col B Crutley D R C 17 058 Rev W Wandby L 6 230 NOTTINGHAM Bassettlow M 21 221 </p> |
| <p> M 16 064 H 17 021 379° H F C Crookshank C 10 058 A Neal I 9 901 G Deer Lab 7 022 Horncastle M 15 587 H 17 455 380° Henry C Haala sc I C 12 837 F C Haffell L 10 168 J R Saulter Lab 3 683 Louth M 18 449 H 20 075 381° Lt Col A J Heage D R C 13 999 Mrs M Wistricham L 13 560 T Hol es Lab 4 027 MILDENHALL Acton M 372° J F C Sir H I CUG Breatfor M 18 452 H 21 676 383° Lt Col Sir H Morden C 14 025 Mella C urhill Lab 10 918 J C venon L 3 957 </p> | <p> WOOD 390° G L cher 24 822 pm I C 14 995 Fraser L 22 360 E P Ball Lab NORFOLK Eastern M 21 234 H 22 193 392° Viscount Hailley L 13 349 393° Sir R J N Neville Rt C 12 434 W Holmes Lab 7 856 King's Lynn M 21 948 H 23 155 394° Lord Fer no C 14 201 W L Sir J C R Northern 394° Sir H </p> | <p> 15 670 405° Frederick Seymour 25 736 Cocks Lab 24 603 E G Cove L 9 814 G E Pierrepont C 7 219 Mansfield M 30 008 W 29 727 406° C W P Eron Lab 28 416 W Collins L 10 517 S R Gidebottom C 9 035 Rosina Smith C 533 Newark M 21 813 H 23 023 407° Ma of Litchfield C 15 707 J Haslam L 10 768 </p> |
| <p> South West M 19 577 H 396° B E Taylor 231° A McLea Duval L </p> | | <p> 3 765 16 444 </p> |

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Abstracts 31-32

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 (Office—Rooms 772, 773 and 774 Royal Courts) Beds (Bedford)—W, G. and A.

Cumberland (C
County No 1
Westmorland 1
Lancashire A
and A.
Salford Division
Liverpool—W
Clerk of Assize
Associate H I
Clerk of Jail
Cousins Pres.

Northumbrian
W. S and A
Durham (Dart
Yorkshire A
W. S and A

West Riding Div. (Leeds)—W. Spring A and A
Clerk of Assize C. Milton Barker & Dr Johnson
Buildings Temple E.C. 4 £300
The 1st of 12th Dec 1891 at 11.15 AM

The National Wages Board (Railways).

5 Old Palace Yard, Westminster, S.W. 1

The National Wages Board was reconstituted by 1864

North Wales and Chester Circuit
Wrexham (Chester)—W. (Chester) H. W. (Newtown) S

South Wales Division
Pembrokeshire (Haverfordwest)—W. and S.
Cardigan (Llan Peter)—W. and S.

Official Registrar Sir L. L. D. Smith, B.C.L.

Key Street, Arbroath, Vaughan Road, N.

Office of the Vicar-General of the Diocese of York
and for granting Marriage Licences in the Diocese



Executive Officer, H. Wilkinson E. St. John

1111 22 33 44 55 66 77 88 99 00

First U.S. Asiatic Arch. Dec 1914 11

II IL Wolford Linné; KU : :

(Student)

Environ Monit Assess (2008) 142:111–122

As of 4/4/88 Stock price:

Verfasser: Dr. G. S. Macdonald
 Übersetzer: Dr. G. S. Macdonald

Supervision Unit, Training Branch, U. A.

... ..

METROPOLITAN MAGISTRATE

11. *Chlorophyll a* and *Chlorophyll b* content of the leaves was determined by the method of Arnon and Whistler (1940).

COURT OF SESSION (1832) LAW SITTINGS, Oct 15 to March 20 and May 15 to July 20.

Lord President of the whole Court Lord Clyde (Right Hon James Avon Clyde)

Inner House Ordinary Clerk Mr William
R. A. HARRIS

Crown Office

Minute Book Office and Editorial Citations Office

24 H M Register House Edinburgh

Keeper (ad interim) T F Paterson, w. s.

Clerk (ad int) Donald J Macrae w. s.

Rolls of Court and Calling Lists

Keepers of Inner House Rolls, William Mill John A

Lee w. s.

Loc w. s.

Hornings Inhibitions Adjudications and Entails

22 Basine Office General Register House

Keeper of the Registers of Hornings Inhibitions

Adjudications, and Entails George A. J. Lee w. s.

Register of Deeds and Protests

Keeper George A. J. Lee w. s.

Accountant of Court (Judicial Factories and Bankruptcy)

Accountant, J. W. Inglis c. s. £1,000
Chief Clerk, A. Duncan.

Joint Stock Companies Registry Office

2 Parliament Square Edinburgh

Registrar (two of Limited Partnerships and of
Business Names) John A. Inglis, & c.

Edinburgh Gazette Office

2 Parliament Square Edinburgh

Supt and Keeper John A. Inglis, & c.

Receivers of Crown Rents Scotland,

H. M. Register House, Edinburgh

Crown Receiver John Paterson.

Bishopric of Orkney John White Kirkwall

SCOTTISH LAND COURT,

2 Greenacre Crescent, Edinburgh.

Members, The Hon Lord St Vigand, (Chairman)

Donald Mackay, James E. Emlen nt, John A
Cameron.

Court of Lords Commissioners for Teinds

The Judges of the Inner House and Lord Murray

Lord Clerk of Teinds

Clerk of Teinds Lord George Turner £500

Exchequer

H. M. Commissary Office

2 Parliament Square, Edinburgh

Commissary Clerk Ralph Richardson w. s.

Depute do William Potter.

H. M. Chancery

Interim Director J. C. Stretton Miller w. s.

Interim Depute do Alex G. Vetch

Great Seal Office

Lord Keeper Rt Hon. W. Adamson w. s.

Depute Keeper J. C. Stretton Miller, w. s.

Substitute Keeper A. G. Vetch

Extractor's Office.

Principal Extractor, T. F. Paterson, w. s.

Assistant Extractor Donald J. Macrae, w. s.

LIST OF SHERIFFS, SHERIFFS-SUBSTITUTE, SHERIFF CLERKS, AND FISCAIS OF
COUNTIES IN SCOTLAND

[illegible]

ADOPTION OF CHILDREN

not born alive (*Births and Deaths Registration Act 1926*)

ONALITY

tonality is mainly t

... and has as at the date of the 1st ... mental in accordance with the provisions

... of —

habitation is severed from the Crown

ADMINISTRATIVE SUPERVISION AND DEPORTATION

- IN 1901
- (1) in the case of a woman, by marriage with a British subject and
 - (2) by naturalization

Not naturalized—All Certificates of Naturalization granted in the United Kingdom between May 23, 1870, and December 31, 1914, were

(Article 6 of the Order) for the registration of ... the deportation of aliens by order of the Secretary of State which can be made on various grounds. The Aliens Order 1900, was made under the Aliens Registration Act 1902 as amended and extended by the Aliens Restriction (Amendment) Act, 1919

Certificates.

- (5) If the territory of which he is an inhabitant is severed from the Crown, *cf. e.g.* the case of Hanover and if

the persons so separated are treated in the same manner as if they were native subjects.

ALMIGHTY REVISION AND INFO

Acquisition of British
alien may acquire British

- (1) by special Act of
(2) by the conquest
of the territory
habitant.
(3) in the case of a
British subject
(4) by naturalization

Naturalization—All
ization granted in the
May 23, 1870, and 1871.

and the Registrar has given a
the effect that he has registered it
(a) until the coroner has made a di-

(b) and death is proved
A person disposing of a body
within six hours after the
notification as to the place of
the disposal of the body (s. 3)

(4) born hill (see under R.
ration) s. 253

Death at Sea The master of a ship
must record any death

to the Registrar
Death at Sea

ed to register death
occurring in their district

In Scotland the rule
similar but (a) the law

within 8 days (a) the
must give a certificate of

in terms of the Registrar
(Scotland) Act 1854

informant of a death receives
a certificate that the death

This is given to the undertaker
to the keeper of the register

ply is under penalty in all
cases

Coroners Inquests.—
held in cases of violent or

such as the case of a
man

effect to leave instructions in writing
effect (removal of body)

LOCAL GOVERNMENT

shall not vote for more than one constituency for which he or she is registered by virtue of a

registered in 1929

The Index letters showing the nature of the qualifications of an elector are—

FOR MEN

- L = Residence qualification
- B = Business premises qualification
- O = Occupational qualification
- W = Qualification through wife's occupation
- NM = Naval or military voter

FOR WOMEN

- F = Residence qualification
- B = Business premises qualification
- O = Occupational qualification
- W = Qualification through wife's occupation
- NM = Naval or military voter

RIGHT TO VOTE

SCOTLAND

[Intendants &c, of Insane Asylums, &c]

(note page 254)

MARRIAGES

BY BANN OF BUNG

LAWS OF MARRIAGE.—[edit of 1861]

... be obtained at the office | seven days before the return can be given.

shall
and to
place
is
in the
person
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... F

years
now
or per
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last
month

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list
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...
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...
... of 6

ON | DOCUMENTS TO BE PRODUCED AT THE MARITAL

71 Ld 410

MARRIAGE CEREMONY

FEES

| | entering notice of a marriage by | s d |
|---------|---|--------|
| The man | certificate in the marriage notice book | 1 0 |
| | entering notice of a marriage by | |
| | us in the marriage notice book | 1 0 |
| | certificate for marriage without | 1 0 |
| | | 1 0 |
| | | 30 0 |
| | | 10 0 |
| | | 5 0 |
| | | 10 0 |
| | | 2 11 0 |

Rules and Regulations relating to this Act | If both parties are Jews they must give
 notice in a Jewish place of worship

which the meeting house is situated. The presence of a Registrar of Marriages is not necessary at such marriages of Jews or members

addition to that under this Act has

or be
re-nam

(b) That some other marriage ceremony in impediment,

makes the will in the testator's name, the testator, if he is a man, signed his will without the witnesses being present.

ENTIRE—By this word is understood the whole of the testator's estate.

TO ONE PERSON ABSOLUTELY.—When it is the intention to leave all the property

WHERE TO FIND A PROVED WILL.

Preliminary Note—The Act after January repealed the houses, &c.) : The Act abol

TABLE OF EXAMPLES

Important—The Notes at the end of

In each instance

If the Intestate

1. Widow (or husband), as
2. Widow (or husband), as
3. Widow (or husband) : mother not both
4. Widow (or husband) as of whole blood
5. Widow (or husband) as of half blood
6. Widow (or husband) as
7. Widow (or husband) as
8. Widow (or husband), as
9. Widow (or husband) :

(a) Preparing pricing and agreeing a schedule realised.

Percentage charges half the fee for architectural

2 Private Treaty Sales

CONSULTING ENGINEERS

On Constructional Work the payment is usually

3 Purchases

Freehold Copyhold or Leasehold Property —

property — 5 per cent. on £500 and 2½ per cent. on residue, to include inventory and valuation

One Year's rent whatever the actual sum (the premium or consideration in all cases)

£300 and 2 guineas per cent
minimum fee 5 guineas

4. Valuation of Furniture
Effects—5 per cent up to £50
cent on the residue

5. Valuation of Plant Machine
Stocks—5 per cent on first £10
cent on the residue

TH

The Bankers' Trust Company of New York
issued the following estimate in 1914—

| Nation | Total Expenditure |
|----------------|-------------------|
| British Empire | £13,577,900,000 |
| Great Britain | 11,076,000,000 |
| Canada & India | 762,700,000 |
| Australia | 476,700,000 |
| New Zealand | 431,400,000 |
| South Africa | 159,000,000 |
| India | 687,100,000 |
| Other Parts | 182,000,000 |
| Belgium | 411,800,000 |
| France | 1,000,000,000 |
| Greece | 1,000,000 |
| Italy | 1,000,000 |
| Japan | 1,000,000 |
| Portugal | 1,000,000 |
| Rumania | 1,000,000 |
| Serbia | 1,000,000 |
| United States | 1,000,000 |
| Total Allies | £40,981,600,000 |

| Nation | Total Expenditure |
|-----------------|-------------------|
| Austria-Hungary | £4,068,400,000 |
| Bulgaria | 261,000,000 |
| Germany | 20,341,100,000 |
| Turkey | 451,800,000 |

Total — £15,122,300,000

Grand Total £56,086,900,000

Relative Cost of the Great War

A table was also published showing the relative

| Nation | Relative Cost |
|-----------------|---------------|
| Great Britain | 34.49 |
| France | 19.36 |
| Italy | 20.59 |
| Japan | 23.11 |
| Austria-Hungary | 8.67 |
| Germany | 18.13 |
| Turkey | 24.71 |

NAVAL COMMANDS (Nov 1, 1959)

The News

| The News | | Bear Adm. 1st Lattle 5 p.m. from Bear Adm. H. B. | |
|----------|---|--|-----------------------------|
| C in-C | Adm. Sir E. S. Aloxan 1st 4 inch 1/2 r. c. n. | B. A. R. Plunkett | Leale-Erlo Drax c. n. p. n. |

Derwain's Luckymart, 1011 4th St. E. Bldg.

Coast of Scotland

Chairman H. J. Pear Adm. T. J. Hallett

Reserve Fleet.

Car sent by Post V. Adm F H Hall Thompson, c. a.
c. a. (C. a. a.) April 2, 1922

Atlantic Fleet

(2 " Nelsons " 4 Iron Dukes " 3 Battle Cruisers)

East Indies

C in C, For Adm L. J. A. Fullerton, C.S. 1st
(1st of 1st). Dec. 3, 1917
S. N. O., Persian Gulf Capt. H. Bovee C.S. 1st
Jan. 18, 1918

Index

A friend

Vice Adm R. M. Brunster, c n., c v.

America and West In

C in C Vice-Adm Sir C. F. M. Fu
130 (Despatch)

Mediterranean

1c Queen Elizabeth "s" Born, 1890 - 1944.

THE ROYAL NAVAL RESERVE

The R.N.R. was formed in 1853 and its affairs are governed, under the Board of Admiralty, by the R.N.R. Advisory Committee, which meets as necessary.

R N R Advisory Committee.

at Victoria Street S.W. :

President Vice Adm Sir J D Kelly R.C.N.
Secretary Paym Lieut. A. O. Jones R.C.N.

Considerers for $R \setminus H$ or

Learned in Canada Place

2010年10月10日

Land 1 (P L A Buildings Tow
E W Buchanan & Co. Inc.

Southwest & Prudential Ins.

THE ROYAL NAVAL VOLUNTEER RESERVE.

The R.N.V.R. was formed in 1902, and its affairs are governed under the Board of Admiralty by the R.N.V.R. Committee.

P. V. R. COMPTON

50 Victoria Street, S.W.

President Vice-Adm. Sir J D Kelly KCB

Commanders of Divisions

London (H M S Pres d nt Victoria Embankment)

| COUNTRY | 1914 | | 1918 | |
|--------------------------|---------|---------|---------|---------|
| | Active | Reserve | Active | Reserve |
| Great Britain | 145,000 | 65,600 | 80,000 | 71,000 |
| United States of America | 27,500 | | 214,500 | 31,000 |
| Japan | 27,000 | | 55,000 | |
| France | 80,000 | | 62,000 | |
| Italy | 60,000 | | 50,000 | |

SHIPS OF THE ROYAL NAVY (Nov : 1929)

POST JUTLAND TYPES

Battleships

| Com- pleted, 1927 | Roiney | Nelson | T 4 | M 4 |
|-------------------------|---|---|--------|---------------------------|
| | | Battle Cruiser | 35 000 | 4 ft nam nt 9 x 16 1/2 |
| 1926 | Hood | Cruisers 4 Type (1 rail) | 41 000 | 8 x 15 1/2 |
| 1927 | Berwick | Cumberland | 20 000 | 8 x 8 1/2 |
| 1928 | Kent | Suffolk | | |
| 1929 | London | Devonshire | | |
| | Sussex | Shroshire | | |
| 1930 | Dorset | ire N 150 k B Type | 8 400 | 6 x 8 1/2 |
| 1930 | York | | | |
| 1930-31 | Exeter | | | |
| — | Surrey | Northumberland | | |
| — | One to be laid down in | 1930 | | |
| 1929-25 | Hawkins | Frubisher | | |
| | Edinburgh | | 9 770 | 7 x 7 5/16 |
| | Vindictive | | 9 750 | 6 x 7 5/16 |
| 1925 | Emerald | Enterprise | 7 500 | 7 x 6 1/2 |
| 1928-22 | Danae | Dauntless | | |
| | Dell | Despatch | | |
| | Dragon | Durban | 4 650 | 6 x 6 1/2 |
| | Le it to New Zealand (— Duoode D nedid | | | |
| 1926-22 | Calro | Calcutta Cape town Carisle Col ombo | 4 290 | 5 x 6 1/2 |
| | | Flotilla Leader | | |
| 1930 | Codrington | | 2 520 | 5 x 4 7/16 |
| | | Destroyers | | |
| 1928-30 | Acasta | Aclates | | |
| | Achero | Attive | | |
| | Amazon | Ambuscade | | |
| | Antelope | Anthony | | |
| | Ardent | Arrow (37 knots). | 2 532 | 4 x 4 7/16 |
| | | | 2 173 | |
| 1926 | X 2 | Submarines | | |
| 1928 | Oberon | | 1 345 | 1 800 x 4 1/2 |
| 1928-29 | Odin | Olympus Or- pheus Osiris Oswald, etc. | | |

FPE-JUTLAND TYPES

Rattlesnaps

| Year | Gift | Value | Marriage |
|------|--|--------|-------------|
| 1916 | Queen Elizabeth Ma lava Earlom Vailant Warpiate | 27 000 | 8 X 1510 |
| 1917 | Royal Sovereign Royal Oak Revenge Kes luti n Ramillies | 25 750 | 8 X 1510 |
| 1914 | Iron Duke Benbow Empress of India Mariborouk | 25 500 | 10 X 13 500 |

Battle Cruisers

| | | | |
|------|----------------|--------|------------|
| 1916 | Pepulse Penown | 26 500 | 6 X 2513 |
| 1914 | Tiger | 28 500 | 8 X 23 511 |

Cruzceya

| | | | | | |
|------|------------|-----------|--------|-------|----------|
| 1917 | Cardiff | Ceres | Coven | 1 | |
| | try | Uracon | Curlew | 4 190 | 5 X 6 0 |
| 1917 | Coucord | | | 3 750 | 5 X 6 10 |
| 1916 | Caledon, | Calypso, | Cara | | |
| | doe | " | | 4 120 | 5 X 6 10 |
| 1916 | Centaur | | | 3 750 | 4 X 6 10 |
| 1915 | Calliope | Lambrian | | | |
| | Canterbury | Castor | | | |
| | Champion | Complanco | 3 750 | | 4 X 6 10 |
| 1914 | Chrysoth, | Cleopatra | | | |
| | Corins | " | 3 750 | | 4 X 6 10 |
| 1914 | Birmingham | Lowestoft | 5 400 | | 8 X 6 10 |
| 1912 | Dartmouth | " | 5 100 | | 8 X 6 10 |

Submarine

13th H & K 30th L & W & Rth Classes
 L Submarines are being replaced by Oth and
 Rth

FIVE YEAR PROGRAMME 1925-1929

"A" Cruisers 14. "B" Cruisers 7. Sub-
marines 24. Program no has been 2.

Flotilla Leaders

| | |
|---|----------------------------------|
| Fregates, Terror Gorgon (800 tons) 1 Mural al Boilt | Flotilla Leaders |
| (6 eye towal " " " " " " | " bel, Douglas Mahlar |
| Powere (1935 | |
| Lone) 1 churid | Ko, pol, Shakespeare |
| Duff sea. Lu | |
| Fleet Air Arm | |
| Aircraft Carriers, Furious Argus Pegasus Ark | Sammores, Armour |
| Royal Hermes, Eagle Courageous, Glorious 43 12A | Submarines—Buitt 55 Buitt 77, 78 |
| Drum (H.A.N.) | Sloops various, at |
| Aircraft (Home Waters) & Fighter Flights 6 | Coastal Motor W 22 23 |
| Destroyer fleet | |

FLEETS OF THE MARITIME POWERS (February 1929)

| Class | British Empire | | | U.S.A. | | | Japan | | | France | | | Italy | | | Russia | | | Germany |
|---------------------|----------------|----|---|--------|---|----|-------|----|---|--------|----|----|-------|----|---|--------|---|---|---------|
| | C | B | P | C | B | P | C | B | P | C | B | P | C | B | P | C | B | P | |
| Battle ships | 16 | | | 18 | | | 6 | | | 9 | | | 4 | | | 4 | | | 8 1/2 |
| Battle Cruisers | 4 | | | | | | 4 | | | | | | | | | | | | 8 4 |
| Cruisers | 52 | 9 | 3 | 32 | 8 | 15 | 34 | 7 | | 13 | 4 | 1 | 14 | 4 | 6 | 4 | 2 | | 8 4 |
| Coast Def. nos. | 3 | | | | | | | | | | | | | | | | | | |
| Aircraft Carriers | 7 | 1 | | 3 | | | 5 | | | 1 | 1 | 1 | 1 | | | | | | |
| Min. Lander | 16 | 2 | 1 | | | | 4 | | | 7 | 12 | 12 | 12 | | | | | | 24 3 |
| Destroyers | 140 | 18 | 8 | 309 | | 8 | 101 | 10 | 8 | 54 | 8 | | 65 | 4 | 4 | 34 | | | 7 |
| Torpedo Boats | | | | | | | | | | | | | 43 | | | 6 | | | |
| Submarines | 52 | 18 | 6 | 122 | 2 | 4 | 69 | 8 | 4 | 52 | 40 | 13 | 45 | 10 | 9 | 15 | | | |
| Mines | 31 | 4 | 6 | | | | | | | 8 | 2 | 4 | 23 | | | 4 | | | |
| Coastal Motor Boats | 6 | | | | | | 3 | | | 3 | 2 | 5 | 104 | 4 | | 25 | | | |
| Min. ats | | | | 11 | | | 3 | | | 46 | | | 7 | | | 2 | | | |
| Minesweepers | 33 | 2 | | 42 | | | 10 | 2 | | 26 | | | 44 | | | 20 | | | 37 |

C = Completed B = Building P = Projected

Italy is projected by the U.S.A. alliance Russia's progress is slow in building

NAVAL CASUALTIES IN THE WAR

Casualties to all ranks of Royal Navy and Royal Naval Reserve including Mercantile Marine Reserve while serving in 1131 ships and merchant ships but excluding casualties of the Royal Naval Division and British Mercantile Marine losses—

| | Officers | Men |
|------------------------------------|--------------|---------------|
| Killed in action or died of wounds | 2,074 | 20,735 |
| Died | 400 | 11,433 |
| Wounded in action | 549 | 3,962 |
| Injured | 256 | 392 |
| Missing | — | 2 |
| Prisoners of War | 211 | 824 |
| Interned | 51 | 170 |
| Total | 3,541 | 37,517 |

WARSHIP LOSSES IN THE WAR.

Allies 803,000 displacement tons.
Enemy (excluding Scapa Flow) 415,000 displacement tons.

| Class | U.K. | U.S.A. | France | Italy | Japan | Germany | Aust. H. |
|-----------------|------|--------|--------|-------|-------|---------|----------|
| Battleships | 23 | — | 4 | 3 | 2 | 1 | 3 |
| Battle Cruisers | 3 | — | — | — | — | — | — |
| Cruisers | 25 | 1 | 5 | 2 | 4 | 24 | 2 |
| Monitors | 6 | — | — | 1 | — | — | 3 |
| Destroyers | 64 | 2 | 14 | 10 | 3 | 72 | 5 |
| Torpedo Boats | 20 | — | 8 | 3 | 1 | 51 | 1 |
| Submarines | 59 | 1 | 14 | 8 | — | 116 | — |
| Small Craft | 27 | — | 9 | — | — | — | — |

WAR LOSSES OF BRITISH MERCANTILE SHIPPING

| Ships | By T.H. & Co. | By Buh. marines | By Min. re | By Air craft | Total |
|--------------|----------------|------------------|----------------|--------------|------------------|
| Merchant | 442,702 | 6,635,457 | 672,127 | 7,912 | 7,758,090 |
| Fishing | 2,637 | 57,573 | 8,454 | NIL | 71,765 |
| Total | 445,339 | 6,693,030 | 680,581 | 7,912 | 7,836,855 |

BRITISH CAPITAL SHIPS
COMPARISON WITH PRE WAR TOTAL.

| Date | Battleships | | Battle Cruisers | | Total |
|------------|-------------|----------|-----------------|----------|-------|
| | Build. | On Order | Build. | On Order | |
| Jan 1 1914 | 58 | 14 | 9 | 1 | 82 |
| Jan 1 1930 | 16 | 0 | 4 | 0 | 20 |

* From official sources.

ARMIES OF THE WORLD

AIR FLEETS OF THE WORLD

| COUNTRY | SYSTEM | PEACE STRENGTH | ESTIMATED WAR STRENGTH | COUNTRY | NO. OF AIRCRAFT |
|----------------|---------------|----------------|------------------------|----------------|-----------------|
| Argentina | Militia | 30 000 | 100 000 to 300 000 | Argentina | 30 |
| Austria | Voluntary | 30 000 | (a) 30 000 | Austria | (c) |
| Belgium | Compulsory | 90 000 | | Belgium | 190 |
| Brazil | Compulsory | 46 000 | 100 000 to 130 000 | Brazil | 100 |
| Bulgaria | Voluntary | 20 000 | (b) 33 000 | Bulgaria | (f) |
| Chile | Compulsory | 25 000 | | Chile | 100 |
| China | Voluntary | 1 000 000 | | China | (i) |
| Czechoslovakia | Compulsory | 150 000 | | Czechoslovakia | 130 |
| Denmark | Militia | 12 000 | | Denmark | 30 |
| Estonia | Compulsory | 20 000 | 90 000 | Estonia | 50 |
| Finland | Compulsory | 36 000 | 130 000 | Finland | 60 |
| France | Compulsory | 350 000 | 1 300 000 | France | 1 400 |
| Germany | Voluntary | 100 000 | (c) 100 000 | Germany | (j) |
| Gt. Britain | Voluntary | 210 000 | 530 000 | Gt. Britain | 800 |
| Greece | Compulsory | 95 000 | | Greece | 6 |
| Hungary | Voluntary | 35 000 | (d) 35 000 | Hungary | (l) |
| Italy | Compulsory | 310 000 | | Italy | 1 200 |
| Japan | Compulsory | 200 000 | 750 000 | Japan | 550 |
| Mexico | Compulsory | 50 000 | | Mexico | 24 |
| Netherlands | Compulsory | 270 000 | | Netherlands | 20 |
| Norway | Natl. Militia | 60 000 | 360 000 | Norway | 48 |
| Peru | Voluntary | 8 000 | | Peru | 24 |
| Poland | Compulsory | 264 000 | 900 000 | Poland | 500 |
| Portugal | Conscription | 32 000 | 150 000 | Portugal | 64 |
| Romania | Compulsory | 150 000 | 450 000 | Romania | 100 |
| Russia | Compulsory | 562 000 | | Russia | 1 350 |
| Spain | Compulsory | 304 000 | 750 000 | Spain | 400 |
| Sweden | Compulsory | 95 000 | 380 000 | Sweden | 124 |
| Switzerland | Natl. Militia | 45 000 | 150 000 | Switzerland | 200 |
| Turkey | Conscription | 120 000 | | Turkey | 50 |
| U.S.A. | Voluntary | 145 000 | | U.S.A. | 936 |
| Yugoslavia | Compulsory | 127 000 | | Yugoslavia | 24 |

Notes:—(a) Austria 100 000 to 300 000 all ranks by Treaty of St. Germain. (b) Bulgaria has led to 20 000 all ranks, with Gendarmerie 20 000 and Frontier Guard 3 000 by Treaty of Neuilly. (c) Germany has led to 200 000 all ranks by Treaty of Versailles. (d) Hungary has led to 20 000 all ranks by Treaty of Trianon. (e) Japan has led to 200 000 all ranks by Treaty of Commerce and Consular Rights. (f) Italy has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (g) Mexico has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (h) Netherlands has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (i) Norway has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (j) Poland has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (k) Portugal has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (l) Romania has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (m) Russia has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (n) Spain has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (o) Sweden has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (p) Switzerland has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (q) Turkey has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (r) U.S.A. has led to 20 000 all ranks by Treaty of Commerce and Consular Rights. (s) Yugoslavia has led to 20 000 all ranks by Treaty of Commerce and Consular Rights.

FLEETS OF THE MARITIME POWERS (February 1929).

| Ship | British Empire | | | U.S.A. | | | Japan | | | France | | | Italy | | | Russia | | | Total |
|---------------------|----------------|----|---|--------|---|----|-------|----|---|--------|----|----|-------|----|---|--------|----|---|-------|
| | C | B | P | C | B | P | C | B | P | C | B | P | C | B | P | C | B | P | |
| Battle-ships | 16 | — | — | 18 | — | — | 6 | — | — | 9 | — | — | 4 | — | — | 4 | — | — | 81 |
| Battle Cruisers | 4 | — | — | — | — | — | 4 | — | — | — | — | — | — | — | — | — | — | — | 8 |
| Cruisers | 52 | 9 | 3 | 32 | 8 | 15 | 34 | 7 | — | 15 | 4 | — | 14 | 4 | — | 6 | 4 | — | 84 |
| Coast Defence | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Aircraft Carriers | 7 | — | — | 3 | — | — | 5 | — | — | 1 | — | — | — | — | — | — | — | — | — |
| Flotilla Leaders | 16 | — | — | — | — | — | — | — | — | 7 | — | — | 11 | — | — | — | — | — | — |
| Destroyers | 140 | 18 | 8 | 309 | — | 8 | 101 | 10 | 8 | 54 | 8 | — | 65 | 4 | — | 39 | — | — | 443 |
| Torpedo Boats | — | — | — | — | — | — | — | — | — | 7 | — | — | 43 | — | — | — | — | — | 7 |
| Submarines | 52 | 18 | 6 | 122 | — | 4 | 69 | 8 | 4 | 54 | 40 | 13 | 45 | 10 | — | 9 | 15 | — | — |
| Mine Sweeper | 31 | 4 | 6 | — | — | — | — | — | — | 8 | — | 4 | 23 | — | — | — | — | — | — |
| Coastal Motor Boats | 6 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Gunboats | — | — | — | — | — | — | 3 | — | — | 3 | — | — | 104 | 4 | — | 25 | — | — | — |
| Mine-sweepers | 33 | — | — | 42 | — | — | 10 | — | — | 46 | — | — | 7 | — | — | — | — | — | — |

C = Completed B = Building P = Projected
 It is not yet possible to estimate the progress in building

NAVAL CASUALTIES IN THE WAR

WARSHIP LOSSES IN THE WAR

| Casualties | Casualties | | Class | U.K. | U.S.A. | France | Italy | Japan | Germany | Austria |
|------------------------------------|------------|--------|-----------------|------|--------|--------|-------|-------|---------|---------|
| | Off. pers. | Men. | | | | | | | | |
| Killed in action or died of wounds | 2,074 | 20,735 | | | | | | | | |
| Died | 400 | 11,433 | Battleships | 13 | — | 4 | 3 | 1 | 1 | 3 |
| Wounded in action | 549 | 3,962 | Battle Cruisers | 3 | — | — | — | — | — | — |
| Injured | 256 | 392 | Cruisers | 25 | 1 | 5 | 2 | 4 | 24 | 3 |
| Missing | — | — | Moritors | 6 | — | — | — | — | — | — |
| Prisoners of War | — | — | Destroyers | 64 | 2 | 14 | 10 | 3 | 78 | 5 |
| Interned | 52 | 170 | Torpedo Boats | 10 | — | 8 | 5 | 1 | 51 | 4 |
| | | | Submarines | 59 | 1 | 14 | 8 | — | 116 | — |
| | | | Small Craft | 27 | — | 9 | — | — | — | — |
| Total | 3,541 | 37,517 | | | | | | | | |

WAR LOSSES OF BRITISH MERCANTILE SHIPPING

BRITISH CAPITAL SHIPS COMPARISON WITH PRE WAR TOTAL*

| Ships | Pre War | | By Mines | By Aircraft | Total | Date | Battleships | | Battle Cruisers | | Total |
|----------|---------|---------------|----------|-------------|-----------|-------------|-------------|----------|-----------------|----------|-------|
| | By T.B. | By Submarines | | | | | Fullt. | Building | Fullt. | Building | |
| Merchant | 442,708 | 6,635,000 | 671,477 | 7,812 | 7,790,690 | Jan 1, 1914 | 58 | 14 | 9 | 1 | 82 |
| Fishing | 5,637 | 57,583 | 8,454 | Nil | 71,765 | Jan 1, 1920 | 16 | 0 | 4 | 0 | 20 |
| Total | 448,345 | 6,692,583 | 680,931 | 7,812 | 7,870,655 | | | | | | |

* In official sources.

Instituted by the Admiralty

Royal Air Force: Losses and accounts of £87,490 to Royal Navy and £347,775 to Army 201

ARMIES OF THE WORLD

AIR FLEETS OF THE WORLD

| COUNTRY | SYSTEM | PEACE STRENGTH | LAST WARTIME STRENGTH | COUNTRY | AEROPLANES. |
|----------------|---------------|----------------|-----------------------|----------------|-------------|
| Argentina | Militia | 30,000 | 100,000 to 300,000 | Argentina | 30 |
| Austria | Voluntary | 30,000 | (a) 30,000 | Austria | (c) |
| Belgium | Compulsory | 90,000 | | Belgium | 190 |
| Brazil | Compulsory | 45,000 | 100,000 to 130,000 | Brazil | 100 |
| Bulgaria | Voluntary | 20,000 | (b) 33,000 | Bulgaria | (f) |
| Chile | Compulsory | 15,000 | | Chile | 100 |
| China | Voluntary | 1,000,000 | | China | (7) |
| Czechoslovakia | Compulsory | 150,000 | | Czechoslovakia | 130 |
| Denmark | Militia | 18,000 | | Denmark | 30 |
| Estonia | Compulsory | 20,000 | 90,000 | Estonia | 40 |
| Finland | Compulsory | 36,000 | 136,000 | Finland | 60 |
| France | Compulsory | 150,000 | 2,300,000 | France | 2,400 |
| Germany | Voluntary | 100,000 | (c) 100,000 | Germany | (j) |
| Gr. Britain | Voluntary | 110,000 | 530,000 | Gr. Britain | 800 |
| Greece | Compulsory | 95,000 | | Greece | 6 |
| Hungary | Voluntary | 25,000 | (d) 35,000 | Hungary | (h) |
| Italy | Compulsory | 310,000 | | Italy | 2,200 |
| Japan | Compulsory | 200,000 | 750,000 | Japan | 550 |
| Mexico | Compulsory | 50,000 | | Mexico | 24 |
| Netherlands | Compulsory | 270,000 | | Netherlands | 20 |
| Norway | Natl. Militia | 60,000 | 360,000 | Norway | 48 |
| Peru | Voluntary | 8,000 | | Peru | 24 |
| Poland | Compulsory | 264,000 | 900,000 | Poland | 500 |
| Portugal | Conscription | 32,000 | 150,000 | Portugal | 84 |
| Rumania | Compulsory | 150,000 | 450,000 | Rumania | 700 |
| Russia | Compulsory | 551,000 | | Russia | 2,150 |
| Spain | Compulsory | 304,000 | 750,000 | Spain | 400 |
| Sweden | Compulsory | 95,000 | 350,000 | Sweden | 124 |
| Switzerland | Natl. Militia | 45,000 | 250,000 | Switzerland | 100 |
| Turkey | Conscription | 120,000 | | Turkey | 50 |
| U.S.A. | Voluntary | 145,000 | | U.S.A. | 936 |
| Yugoslavia | Compulsory | 127,000 | | Yugoslavia | 24 |

Notes.—(a) Austria limited to 30,000 all ranks by Treaty of St. Germain. (b) Bulgaria limited to 20,000 all ranks, with Gendarmerie 20,000 and Frontier Guard 3,000 by Treaty of Neuilly. (c) Germany limited to 100,000 all ranks by Treaty of Versailles. (d) Hungary limited to 35,000 all ranks by Treaty of Trianon. (e) (f) (g) (h) (i) (j) Prohibited by respective Treaties.

ESTABLISHMENT OF THE ARMY

All Ranks
 Regimental Troops (exclusive)
 do. do. (Indian & Colonial and Native Indian
 Army Reserves —
 Supplementary do.
 Militia —
 Channel Islands Militia
 Malta and Bermuda do.
 Territorial Army
 O.T.C. (Officers and Permanent

Total

The corresponding total

THE MILITIA

In 1907 the Militia was constituted as the "Militia" was the "Special Reserve" but the units were retained — The Artillery the Channel Islands Militia. In 1911 the Reserve (and Extra) were abolished, and "Militia" was

COMMANDS OF THE ARMY

Aldershot

THE REGULAR ARMY

Cavalry

Lancashire

Royal Regiment of Artillery

P H A Field Light Indian Mountain
Medium Anti Aircraft, and Heavy Brigades and
Survey CompanyRoyal Malta Artillery—Permanent duty in
Malta.

Corps of Royal Engineers

Fortress Postal, Printing,
and Companies, and in
battalion, &c.

Corps of Signals

Divisional Signals, Wireless
Companies, Army Aircraft Section, &c.

Infantry Regiments

The Foot Guards—The Grenadier Guards (1
Battalions), the Coldstream Guards (3 BatGOC in Chief, Northern York
Shute KCB KCMG

Feb 1 1928

May 15 1927

GOC in Chief, Southern Salisbury
gomery Massingberd KCB KCMGMajor Gen (Administration) A
KCB KCMG DSOGOC in Chief, Western Chester
KCB KBE, CVOBritish Army of the Rhine
GOC in Chief, Lieut. Gen Sir
KCB, KCMGGOC Lieut. Gen Sir E. P. Strick
KBE, CVO, DSOGOC Maj Gen H. J. Huddleston
KBE, DSOIraq
Air Officer Commanding Air V
K. Brookes Popham KCB, CVOIndia
C in Chief, Field Marshal Sir W
Bl. GCB, GCMG, KCSI, CIChief of the General Staff, Gen Sir P. W.
Chetwode, Lt., GCB, KCMG, DSO, ADCAdjutant General Lieut. Gen Sir R. A. Cassels,
KCB, CVO DSO ADC, Indian ArmyQuartermaster-General, Lieut. Gen Sir C. J.
Deverell KCB KBEMaster-General of the Ordnance Lieut. Gen Sir
E. H. de V. Atkinson, KCB, KBE, CVO, CBEEngineer-in-Chief Maj. Gen A. G. Stevenson
GCB, CVO, DSOIndian Commands
Northern, Gen. Sir A. B. Cobbe KCB, GCB,
KCSI, DSO, ADC, Indian ArmyWestern, Gen Sir Charles H. Harrington GCB,
KCB, DSO DCLEastern, Gen Sir J. S. M. Bha. GCB, KCMG,
DSO, Indian ArmySouthern, Lieut. Gen. Sir W. C. G. Heneker
KCB, KCMG, DSOThe Royal Tank Corps
Headquarters Wool, Dorset
The Royal Army Service Corps
Buller Barracks Aldershot
The Royal Army Medical Corps
Crickham Camp, Aldershot
The Army Dental Corps
WokingThe Royal Army Ordnance Corps
Milton Barracks, nr Colham
The Royal Army Veterinary Corps
Cannon House, Tenthill St., Westminster, S.W.
The Royal Army Chaplains Department
War Office, S.W. 1Queen Alexandra's Imperial Military
Nursing Service
Under the Presidency of H. M. the QThe Royal Army Pay
War Office, S.W. 1
The Army Educational
Army School of Education
The Corps of Military
Mylchett Huntments, Ash Vale

March, 1930

FIELD MARSHALS

| | | |
|---|---|----------------|
| 1 R H the Duke of Cornwall | and Colonel in Chief of L.L., Tude Brig. and R.A.M. G. Personal | June 20 1900 |
| Vn, Colonel Grenadier Gds and R.A.M. G. | | June 19 1900 |
| A.U.C. to the King | | July 31, 1901 |
| Lord Methuen | Comdants Gds (Constable of the Tower of London) | July 31, 1901 |
| Viscount Plumer | Comdants Gds and 18th Lancers | July 31, 1901 |
| Viscount Allenby | Comdants Gds and 18th Lancers | March 20, 1900 |
| Sir W R R Bertie | Comdants Gds and 18th Lancers | July 4 1901 |
| H.M. The King of the Belgians | Comdants Gds and 18th Lancers | March 20 1900 |
| Sir W R Redwood Bt | Comdants Gds and 18th Lancers | March 20 1900 |
| India | | |
| | Worcester (Military Sec India Office) Not 20 1900 | |
| | ditto Master Gunner, St. James's Park (Chancery) | Jan. 30 1900 |
| | | June 2 1900 |

GENERALS

British Army

| | | | |
|-----------|----------------|--------------|--------------|
| 111 M f | Imperator of J | W E Ironside | W E Ironside |
| Sur A J G | !! | W E Ironside | W E Ironside |
| Col R L | !! | W E Ironside | W E Ironside |
| Str J P L | !! | W E Ironside | W E Ironside |
| Col A G | !! | W E Ironside | W E Ironside |
| Sur W | !! | W E Ironside | W E Ironside |

Royal Marines

Sir R. D. Whigham, K.C.M.G. & C.M.G.
D.S.O., Col. R. War R. (Eastern
Command, Horse Gds & H. S.).

Indian Army

Sir A S Cobbe, VC OCH.
KCSI, DSO, ADC, Gen Col S
Walsford. (Northern Command
Merrill)

Sir J S M. Shea, OCH, KCMG
D.S.O. (Eastern Command Main
Tall)

Mr A. Skeen, KCB, KCLC, CMG

Royal Marines

1. Director General A. M. S.

Indian Army

Sir R. A. Cassels, K.C.M.G. C.B. D.S.O.
A.D.C. Gen. (Adjutant General
Ind. a).
Sir H. F. Cooke K.C.B. K.C.M.G. C.B.
D.S.O.
C. V. Macmullen C.B. C.M.G. C.B.
D.S.O. (1st Ind. am. Dir. on Pa. ca
Ind.)

MAJOR GENERALS

British Army

Sir J T Burnett-Stuart K.M.C.F.

[illegible]

GREAT WAR MEDALS

Great War Medals—Air Force

GREAT WAR CASU.
Enriched

The following Medals have been issued by the
ADMIRALTY 1st 30 1929

British War Medal
Conspicuous Gallantry
Distinguished Service
Meritorious Service
1914 Star
1914-15 Star
Territorial War Medals

The following Medals have been issued by the
ADMIRALTY 1st 30 1929

British War Medal
Conspicuous Gallantry
Distinguished Service
Meritorious Service
1914 Star
1914-15 Star
Territorial War Medals

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Meritorious Service
1914 Star
1914-15 Star
Territorial War Medals

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Distinguished Service
Meritorious Service
1914 Star
1914-15 Star
Territorial War Medals

Air Ministry

The following Medals have been issued by the
ADMIRALTY 1st 30 1929

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British War Medal
Conspicuous Gallantry
Distinguished Service
Meritorious Service
1914 Star
1914-15 Star
Territorial War Medals

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Distinguished Service
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1914 Star
1914-15 Star
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Distinguished Service
Meritorious Service
1914 Star
1914-15 Star
Territorial War Medals

The following Medals have been issued by the
ADMIRALTY 1st 30 1929

British War Medal
Conspicuous Gallantry
Distinguished Service
Meritorious Service
1914 Star
1914-15 Star
Territorial War Medals

Board of Trade

The following Medals have been issued by the
BOARD OF TRADE up to Sep 30, 1928—

British War Medals (Silver)
British War Medals (Bronze)
The Board of Trade ask that any person
belonging to the Mercantile Marine
medal which

The establishment of the Air Force En
14,350 officers and 15,000 other ranks in 191
the average estimated strength being
officers and 14,083 airmen (exclusive of Pe
nent staff), a total of 13,383

THE AIR PROGRAMME 1929-30
OVERSEAS
India
Iraq
Egypt

The establishment of the Air Force En
14,350 officers and 15,000 other ranks in 191
the average estimated strength being
officers and 14,083 airmen (exclusive of Pe
nent staff), a total of 13,383

The Royal Air Force.

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THE KING Chief of the Royal Air Force
The Air Council

Major General the Rt Hon
Lord Trenchard
Lt Col A H J
Department of the Chief of the Air Staff
Major General the Rt Hon
Lt Col A H J
Department of the Chief of the Air Staff
Major General the Rt Hon
Lt Col A H J
Department of the Chief of the Air Staff

Major General the Rt Hon
Lt Col A H J
Department of the Chief of the Air Staff
Major General the Rt Hon
Lt Col A H J
Department of the Chief of the Air Staff

Director of Operations and Staff Duties, Air Corps

Major General the Rt Hon
Lt Col A H J
Department of the Chief of the Air Staff
Major General the Rt Hon
Lt Col A H J
Department of the Chief of the Air Staff

Department of the Secretary

Major General the Rt Hon
Lt Col A H J
Department of the Chief of the Air Staff
Major General the Rt Hon
Lt Col A H J
Department of the Chief of the Air Staff

Department of the Air Member for Personnel

Religious Statistics.

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RELIGIONS OF THE WORLD

| Religion. | CONTINENTAL DISTRIBUTION | | | | | | Total |
|-------------------------|--------------------------|----------------------|--------------------|--------------------|-------------------|------------------|----------------------|
| | Europe | Asia | Africa | N. America | S. America | Oceania | |
| Christians — | | | | | | | |
| Roman Catholics | 220 000 000 | 7 000 000 | 2 000 000 | 40 000 000 | 61 000 000 | 1 500 000 | 331 500 000 |
| Orthodox Catholics | 120 000 000 | 20 000 000 | 3 000 000 | 1 000 000 | — | — | 144 000 000 |
| Protestant Churches | 115 000 000 | 7 000 000 | 3 000 000 | 75 000 000 | 900 000 | 6 000 000 | 206 900 000 |
| Total Christians | 455 000 000 | 34 000 000 | 8 000 000 | 116 000 000 | 61 900 000 | 7 500 000 | 682 400 000 |
| Non Christians — | | | | | | | |
| Jews | 10 000 000 | 1 000 000 | 500 000 | 4 510 000 | 100 000 | 30 000 | 16 130 000 |
| Muslimans | 5 000 000 | 160 000 000 | 44 000 000 | 20 000 | — | — | 209 020 000 |
| Buddhists | — | 150 000 000 | — | 180 000 | — | — | 150 180 000 |
| Hindus | — | 230 000 000 | — | 150 000 | — | — | 230 150 000 |
| Confucians & d | — | — | — | 600 000 | — | — | 350 600 000 |
| Taoists | — | 350 000 000 | — | — | — | — | 350 000 000 |
| Shintoists | — | 25 000 000 | — | — | — | — | 25 000 000 |
| Animists | — | 45 000 000 | 90 500 000 | 50 000 | — | 100 000 | 235 650 000 |
| Unclassified | 5 000 000 | 18 000 000 | — | 25 000 000 | 2 000 000 | 870 000 | 50 870 000 |
| Total Non Christian | 20 000 000 | 579 000 000 | 135 000 000 | 28 000 000 | 2 100 000 | 1 000 000 | 765 100 000 |
| TOTAL | 4 500 000 | 1 013 000 000 | 143 000 000 | 146 500 000 | 64 000 000 | 8 500 000 | 1 850 000 000 |

RELIGIONS OF INDIA.

| Religion. | 1901 Census. |
|------------|--------------|
| Hindus | 216 734 586 |
| Muslimans | 68 735 233 |
| Buddhists | 11 571 266 |
| Christians | 4 754 064 |
| Sikhs | 3 238 803 |
| Jains | 1 278 596 |
| Parsees | 101 776 |
| Animists | 9 774 611 |

RELIGIONS OF AUSTRALIA

| Religion. | 1901 | 1906 |
|-------------------|-----------|-----------|
| Church of England | 1 970 443 | 2 372 995 |
| Presbyterians | 558 336 | 636 974 |
| Methodists | 547 806 | 632 629 |
| Other Protestants | 458 379 | 637 629 |
| Roman Catholics | 981 425 | 1 134 008 |
| Jews | 27 287 | 21 615 |

RELIGIONS OF NEW ZEALAND

| Religion. | 1906 | 1901 |
|-------------------|--------|--------|
| Church of England | 41 755 | 41 211 |
| Presbyterians | 23 711 | 24 600 |
| Methodists | 9 684 | 9 000 |
| Roman Catholics | 23 799 | 12 890 |

RELIGIONS OF CANADA

| Religion. | 1901 | 1906 |
|--------------------------|-----------|-----------|
| Roman Catholic | 2 833 041 | 3 389 636 |
| Presbyterians | 1 115 071 | 1 409 407 |
| Anglicans | 1 043 017 | 1 407 994 |
| Methodists | 1 072 993 | 1 159 458 |
| Baptists | 384 700 | 421 731 |
| Lutherans | 229 864 | 286 458 |
| Greek Church | 88 507 | 169 832 |
| Jews | 74 564 | 125 197 |
| Mennonites | 44 625 | 58 797 |
| Congregationalists | 34 054 | 70 730 |
| Confucians | 14 562 | 27 114 |
| Salvation Army | 28 834 | 24 733 |
| Evangelical Associations | 10 595 | 13 905 |
| Christian Science | 5 073 | 13 626 |
| Bonkibors | 10 403 | 11 643 |
| Brethren | 9 278 | 11 580 |
| Buddhists | 10 018 | 11 381 |

RELIGIONS OF U.S.A.

| Religion. | Estimated for 1906 |
|----------------------|--------------------|
| Protestant Episcopal | 7,000,000 |
| Other Protestant | 78,000,000 |
| Roman Catholic | 13,000,000 |
| Eastern Orthodox | 470,000 |
| Latter Day Saints | 600,000 |
| Jews | 4 359 000 |

RELIGIONS AND LANGUAGES OF THE BRITISH ISLES

Religious Statistics.

291

RELIGIONS OF THE WORLD

CONTINENTAL DISTRIBUTION

| Religion. | Europe. | A. & E. | Africa. | N. America. | S. America. | Oceania. | Total. |
|----------------------------|----------------------|----------------------|--------------------|--------------------|-------------------|------------------|----------------------|
| Christians — | | | | | | | |
| Roman Catholics | 280 000 000 | 7 000 000 | 2 000 000 | 40 000 000 | 61 000 000 | 1 500 000 | 331 500 000 |
| Orthodox Catholics | 120 000 000 | 20 000 000 | 3 000 000 | 1 000 000 | — | — | 144 000 000 |
| Protestant Churches | 115 000 000 | 7 000 000 | 1 000 000 | 75 000 000 | 900 000 | 6 000 000 | 206 900 000 |
| Total Christians. | 455 000 000 | 34 000 000 | 6 000 000 | 116 000 000 | 61 900 000 | 7 500 000 | 682 400 000 |
| Non-Christians — | | | | | | | |
| Jews | 10 000 000 | 1 000 000 | 500 000 | 4 510 000 | 100 000 | 30 000 | 16 130 000 |
| Mubammadan | 5 000 000 | 160 000 000 | 44 000 000 | 20 000 | — | — | 209 020 000 |
| Buddhists | — | 150 000 000 | — | 180 000 | — | — | 150 180 000 |
| Hindus | — | 230 000 000 | — | 150 000 | — | — | 230 150 000 |
| Confucians and Taoists | — | 350 000 000 | — | 600 000 | — | — | 350 600 000 |
| Shintoists | — | 25 000 000 | — | — | — | — | 25 000 000 |
| Animists | — | 45 000 000 | 90 500 000 | 50 000 | — | 100 000 | 135 650 000 |
| Unclassified | 5 000 000 | 28 000 000 | — | 25 000 000 | 2 000 000 | 870 000 | 50 870 000 |
| Total Non-Christian | 20 000 000 | 579 000 000 | 135 000 000 | 28 000 000 | 2 100 000 | 2 000 000 | 765 100 000 |
| TOTAL | 4 500 000 000 | 1 013 000 000 | 243 000 000 | 146 500 000 | 64 000 000 | 8 500 000 | 6 850 000 000 |

RELIGIONS OF INDIA.

| Religions. | 1901 Census. |
|-------------|--------------|
| Hindus | 216 734 596 |
| Mubammadans | 68 735 253 |
| Buddhists | 22 572 268 |
| Christians | 4 754 064 |
| Sikhs | 1 238 803 |
| Jains | 1 278 596 |
| Parsees | 102 778 |
| Animists | 9 774 611 |

RELIGIONS OF AUSTRALIA

| Religions. | 1901 | 1906. |
|-------------------|-----------|-----------|
| Church of England | 1 720 443 | 2 372 995 |
| Presbyterians | 558 335 | 636 974 |
| Methodists | 547 806 | 632 629 |
| Other Protestants | 458 379 | 637 692 |
| Roman Catholics | 922 425 | 1 134 002 |
| Jews | 27 287 | 22 615 |

RELIGIONS OF NEW ZEALAND

| Religions. | 1915 | 1924. |
|-------------------|--------|--------|
| Church of England | 41 775 | 42 221 |
| Presbyterians | 23 721 | 24 000 |
| Methodists | 9 064 | 9 000 |
| Roman Catholics | 23 779 | 22 890 |

RELIGIONS OF CANADA

| Religions. | 1901 | 1906 |
|--------------------------|-----------|-----------|
| Roman Catholic | 2 833 042 | 3 389 600 |
| Protestants | 1 116 072 | 1 409 400 |
| Anglicans | 1 043 017 | 1 407 500 |
| Methodists | 1 079 993 | 1 159 400 |
| Baptists | 382 720 | 422 200 |
| Lutherans | 220 864 | 266 100 |
| Greek Church | 88 507 | 169 100 |
| Jews | 74 364 | 125 100 |
| Mennonites | 44 625 | 58 100 |
| Congregationalists | 34 054 | 30 100 |
| Confucians | 14 562 | 27 100 |
| Salvation Army | 12 834 | 24 100 |
| Evangelical Associations | 20 595 | 23 100 |
| Christian Science | 5 073 | 23 100 |
| Douklobois | 10 493 | 22 100 |
| Brethren | 9 278 | 21 100 |
| Buddhists | 10 012 | 21 100 |

RELIGIONS OF U.S.A.

| Religions | Estim for 1915 |
|----------------------|----------------|
| Protestant Episcopal | 2 200 000 |
| Other Protestant | 76 000 000 |
| Roman Catholic | 28 000 000 |
| Eastern Orthodox | 470 000 |
| Latter Day Saints | 600 000 |
| Jews | 4 350 000 |

RELIGIONS AND LANGUAGES OF THE BRITISH ISLES



Archdeacons

Archdeacons (each £300)

*GLOUCESTER £4300

33rd Bishop Rt Rev Arthur (Ayte) Headlam
D.D. C.B. (Palace Gloucester) (signs & C
Gloucester) 1923
Assistant Bishop Rt Rev Edwin James Palmer
D.D. (cons 1908) 1929
Dean Very Rev Henry Gee I.D. (at ut £1400)
1917

Canons Residentiary (each about £700)

F.H. Dudden I.D. 1928 Archd. Fiddale 1921
F. Peacock M.A. H.M. Smith D.I. 1921
(Canon Residentiary) 1929 M.E. Atlay M.A. 1923
Organist Herbert Sumson M.A. SAC. F.R.C.
£400

Archdeacon (each £300)

Gloucester Ven. A.H. Fiddale M.A. 1929
Cheltenham Ven. A.W. Cornwall M.A. 1924

Benchord Clergy 300 Cu at a di. 90.

Canon & Vicar Genl. E.W. Hanson K.C. M.A. 1923
Rector & Sec. W.H. Madge I.D. (Gloucester)

GUILDFORD £3000.

1st Bishop and Dean Rt Rev John Harold
Creig D.D. cons 1921 (The Grange Cobham
Surrey) (signs I.H. Gulliver) 1927

33rd Bishop Right Rev John Augustine Kemp-
thorne D.D. cons 1910 (Bishops' Hostel,
Lichfield) (signs J.A. Lichfield) trans 1923

Bishop Suffragan

Stafford Right Rev Lionel Payne (Lewford D.D.
(Edgmond Rectory Newport Salop) 1925

Dean (£1000)

Very Rev H.J. E. Savage D.D. (1909)

Canons Residentiary (each £500)

A. Moncrief M.A. 1917 J.J.G. Stockley, M.A.
Alfred Penny M.A. 1919 1928

Arch. Bright M.A. 1922

Organist, Ambrose P. Porter M.M.S., F.R.C.O.

Archdeacons (each £300)

Stoke-on-Trent, Ven. John M.A. Graham M.A. 1908
Salop Ven. Hon. H.E.S. Lambert M.A. 1917
Stafford Ven. Hugh Light M.A. 1922

Be refect Clergy, 472, Curates, &c., 282

Chancellor F.O. Langley LL.B. (1928)

Perpetual and Sec. G.J. Murray Atkins the
Cleric Lichfield

LINCOLN £4500

Crutham Right Rev John Edward Hine D.D.
cons 1896. (The Dubuquoy Lincoln) 1921

Dean (£1000)

Very Rev T.C. Fry D.I. 1921

Canons Residentiary (each £1000)

Sub Dean Feudwine J.H. Crawley, D.D. 1921

HEREFORD £4200.

LEICESTER.

10th Bishop, Rt. Rev Cyril Charles Robinson
Bartolot, D.D. (Bishops' House, Leicester)

Canons Residentiary (each £1000)

J. Allen Bell, M.A. 1918 Archd. Duckland, M.A.
A.L.H. Grant. 1921

J.F. Kendall, M.A. 1921
Latham, M.A. D.C., £300

ns (each £300)

Macdermot, M.A. 1921

us F. Duckland M.A.

1921, M.A.

Diocese of Exeter

Walter R. Rev. W. W. H. 14 11

Can. & Lic. for

Archd J. S. T. M. A. 1911 A. W. Maplesden
 Bishop of W. 1918 LL. 1
 J. B. Hallane 1918 F. A. Lockhart M. A. 1919
 H. C. M. M. M. A. 1926

U. n. Edward Cook M. A. 1926

A. J. L. (each £200)

St. Thomas's Church (St. Thomas's) 1918

Leafield Bishop (Woolwich)

A. G. O. Ven. I. C. Joynt M. A.

Benefit ed. 1918 Cur. ten. 1935

Clifford E. W. Hall M. A. 1918

Registra Arthur D.

SOUTHWELL £3,180

4th P. of 1918 Rev. Henry Mosley
 (Bishop's Manor & Thwell) Signa J.
 Southwell

Ar. H. n. o. u. (each £300)

Verark, Ven. E. Hall M. A.

Vall. n. g. l. am. Ven. W. J. Corbridge M. A.

Organ at G. F. Francis

Benefit ed. Clergy 1918 Cl. ates d. 1918

Chancellor & Treas. Lawrence M. A. M. A. 1922

Registra D. Oyley & L. 1918

TRURO £3,000.

7th E. of 1918 Rev. I. T. Rev.

Frederick (L. H. E. p. 1918)

1918

1918 (each £200)

1918

1918

Diocese of York

*YORK £9,000.

1918 (each £100) Private of England 1918

Hon. and Most Rev. William Temple D. Litt.

1918 (Bishopthorpe York)

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Palace, Oxon.) (Signs Thomas Oxon.) trans 1925
Bishop Suffragan
 Buckingham Lt. Rev Philip H Eliot D.D. 1921
 Assistant Bishop Lt. Rev Edward Demott
 Shaw D.D. (1914-1916)
 Dean of the Cathedral Church (£3,000)
 Very Rev Henry Julian White D.D. 1920

Oxford Lt. Rev L. D. Shaw D.D. (£3,000) 1921
 Bucks Bishop of Buckingham D.D. (£3,000) 1921
 Berks Ven L. Wickham Legg M.A. (£3,000) 1922
Emancipated Clergy 588 Cl. New (c. 277)
 Claville F. W. Russell E.C., M.A. (1912)
 Sec. & Legal at times 1000 M.A. Oxford

Windsor £2,000
 Dean, Very Rev Albert Victor Rutledge C.V.O.
 D.D. F.R.S. 1917
 Canon's Fees dentary (encl)
 John Neale Dalton Alex. N.
 A.C.V.O., C.H.G., LL.D. (vacant)
 1885 (vacant) 1921
 Chapter Clerk Lewis Stanton

PETERBOROUGH £4,500 (Subject to a
 pension of £1,000.)
 31st Bishop Rt. Rev Claude Maitiu Blagden, D.D.
 (The Palace Peterborough) (Signs Claude
 Petriburg) 1927
 Dean (£1,000).

Archdeacons (each £300)
 Oakham Ven Arthur Ivan Greaves M.A. 1923
 Northampton, Rt. Rev N. M. Lang, D.D. 1919
Emancipated Clergy 301, Curates, &c., 35.
 Chancellor, A. Trevor Lawrence, K.C. M.B.E. (1922)
 Registrar, (vacant)

PORTSMOUTH £3,000
 1st Bishop Rt. Rev F. Nevill
 (Bishop of Portsmouth) 1921
 Portsmouth

Archdeacon
 Portsmouth Ven H. N. J.
 1st of Right Ven R. M.
 Chancellor A. Trevor Law
 Registrar, E. Kochervale
 London Sec. H. T. A. L.
 Treasury W. J. J.

ROCHESTER
 102nd Bishop Rt. Rev John ... 1921
 102nd Bishop Rt. Rev John ... 1921
 (Signs J. R. Rother)

Rochester, Ven Donald Tait, M.A. ... 1921
 Tonbridge, Ven Leonard Savill, M.A. (£300) 1921
Emancipated Clergy, 304; Curates &c., 175.
 Chancellor F. H. L. Errington C.B., D.C.L., &
 Registrar, E. A. Arnold, M.A., Rochester
 Sec., Dry and 400, a Millbank House S.W.

ST ALBANS £2,500.
 4th Bishop Rt. Rev Michael B. Durs D.D. 1921
 1909 (Abbeygate House, St Albans) (M.A.)
 Michael St Albans)
 Assistant Bishop, Rt. Rev G. H. Lander D.D. 1921
 1907 (Lonsdown Vicarage, New Larnet) 1921

Dean.
 Very Rev Edward Lowry Henderson M.A. (£3,000) 1921
 Organist, W. L. Fittman, M.A. 1921
 Archdeacons (each £300)
 St Albans, Ven Hon E. F. Gibbs M.A. 1921
 Bedford Ven A. H. Parnell, M.A. 1921

Archdeacons
 Sudbury Ven W. I. Barnicoke, M.A. 1921
 Suffolk, Ven J. G. L. Darling, M.A. 1921
 Organist, C. J. H. Shaun

Archdeacons
 95th Bishop, Rt. Rev St. Clair George Alth
 Donaldson, D.D. 1902 (The Palace
 Salisbury) (Signs St. Clair George Alth)
 Bishop Suffragan
 Sherborne, Rt. Rev Gerald Buxton Allen, D.D. 1921
 Dean (£1,000)
 Rt. Rev J. H. G. Randolph, D.D. 1921

Registrar and Legal Secretary, W. E. M. 1921
 102nd Bishop Rt. Rev John ... 1921
 102nd Bishop Rt. Rev John ... 1921
 (Signs J. R. Rother)

Bishop of Exeter

Church Pt Per W W Mounch D D (93 Peps
Road New Cross Gate 4 E 14) 1918
Norton-on-Trent Pt Per Frederick Ochter-
loney Esq Esq M A (Langston House
Macclesfield Road 1311um Court on S W 4)
1927

Cathedral of Exeter

Richard Jovet M A 1914 A W Ma; Leaden
ish of W A 1918 LL 1 1919
B Haldane 1918 F A C Akin M A 1929
H T W Hume M A 1926
O M A 1 El ar 1 Cook M A 1926

Cathedral of Exeter

Southwark Bishop (Kingst 1 1 Thames

W A Bishop of Woolwich

A 1914 Ven F C Jovet M A

Benedict Cery 1918 Curates 10 335

1914 Weller F W Haldane M A 1926

1914 A 1914 D 1

SOUTHWELL £3 180

1914 Bishop F 1914 Per Henry Mooley
(Bishop Manor Southwell) (Signa 11
Southwell)

Cathedral of Southwell

1914 Ven E Haldane M A

1914 Ven W J 1914 Ven M A

Cathedral of Southwell

1914 Ven G F 1914 Ven
1914 Ven G F 1914 Ven
1914 Ven G F 1914 Ven
1914 Ven G F 1914 Ven

TRURO £3 000

1914 Bishop and Dean Rt Rev

1914 Bishop (1914 Bishop Truro)

1914 Bishop

Cathedral of Truro

1914 Bishop and Dean Rt Rev

WORCESTER £3 900

Province of York

*YORK £9 000.

1914 Bishop and Primate of England Rt Rev

1914 Bishop and Most Rev William Temple D Litt

1914 Bishop (1914 Bishopthorpe York)

1914 Bishop (1914 Bishopthorpe York)

1914 Bishop (1914 Bishopthorpe York)

1914 Bishop (1914 Bishopthorpe York)

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1914 Bishop (1914 Bishopthorpe York)

1914 Bishop (1914 Bishopthorpe York)

MANCHESTER £2,500.

Dean & Clergy 1223 Dean James H. C. Bates & Co. 1950
His Hon. Judge Dowdall & Co.

R. Farmer & T. H. Arden, Church
Liverpool
Garnon & Co. Liverpool

MANCHESTER £4,500
Very Rev. Frederic Sumpter
Canon D.D. (Bishopric Higher
on) (Signs Guy Manchester) 1928

CARLISLE £4,500

Bishop Suffragan.

6th E. shop Pt. Rev. Henry Herbert Williams D.D.
(Rosa Castle Carlisle) 1949 (He left Carlisle)

Hulme Pt. Rev. John Charles Hill D.D. 1923
(Rectory Bury)

Bishop Suffragan 1920

Middleton Rt. Rev. Richard Godfrey Parson D.D. 1927

Parson D.D. 1920
Folham M.A. 1926

Dean (£1,500)
Very Rev. Hewlett Johnson, D.D. 1914

Canon & Clergy (each £850)

J. J. Scott M.A. 1903 D. G. Johnson M.A. 1914

P. Green M.A. 1911 Archd. Aspinall 1923

Organist A. W. Wilson M.A. Mus. D.

4 Adequens (each £200)

Ma. wheate Ven. W. L. Aspinall M.A. 1916

Rochdale Ven. T. R. Sale M.A. 1919

1948

Organist P. W. Walely Mus. Loc.
Alders

NEWCASTLE £3,400

Very Rev. Harold Ernest Bithorn

RIPON £3,500

6th E. shop Pt. Rev. Edward Arthur Burroughs
D.D. (The Palace Ripon) (Signs Arthur
Ripon) 1926

Bishop Suffragan

1st E. shop Rt. Rev. Lucius F. M. R. Smith
D.D. (Methley Rectory Leeds) 1905

Dean (£1,000)

Very Rev. Charles Mansfield Owen D.D. 1915

1st E. shop

Key C.D.K.

1923

LIVERPOOL £4,200

3rd E. shop Rt. Rev. Albert Augustus Davd
D.D. 1921 (1 shop & Lodge Liverpool) 1923

SHEFFIELD

Bishop Pt. Per.
 1880 cons. 1900
 [C]ons Leonard H S
 Oyo at T W Hanftt Mus B. P. R. C. O

4 Missionns (each £300).
 Regl Id Ve J R Darbysh re M A 1922
 Woodster Ven L C Na d'ford M A 1923

SODOR AND MAN £3,000

3rd B / J Pt le W Ham ta ton Jones
 11 1 h p a Cut Is e of Ma) [C]ons
 W l a od a l Man 1928

WAKEFIELD £3,000

3rd Bishop Rt. Rev James Buchanan Seaton
 M A (Bishop of Wakefield.) [S]ous Jan es
 d) 1928

Archdeacons (each £300)

C L P C M Harvey M A. 1927
 Ven. L. Phipps M A 1927

Organs at J N Hardy Mus B

General Clergy 215 C rates de 91

Chancellor Harry Bevir Valsey K C M A (1928).
 Registrar and S W H Coles Wakefield

SUFFRAGAN BISHOPS OF THE CHURCH OF ENGLAND AND CHURCH IN WALES

SUFFRAGAN BISHOPS will be found under the following dioceses—

E k w (C m f o d) Ea ro P r ess (Carlisle) Buck gl am (Oxford) E ryle J
 Elackbu) Cold ster (L el naford) Cred ton (Exeter) Doer (Ca lterbury) Fulha

CHURCH OF ENGLAND BISHOPS WHO HAVE RESIGNED

| Name | Diocese | Cons. Res. |
|------|---------|------------|
|------|---------|------------|

CANADA

Province of Canada

Archbishop and Metropolitan Lav.

| Bees. | Year | Name | Address | Age | Class |
|-------|------|------------------|-------------------------|------|-------|
| 1904 | 1904 | W. C. L. Worrell | 1853 (co is) | 1915 | 140 |
| 1904 | 1904 | E. Shop | Coadjutor J. Hackenley | 1915 | 140 |
| 1904 | 1904 | 1877 | - | 1915 | 140 |
| 1904 | 1904 | Montreal | John Craig Faith | 1909 | 140 |
| 1904 | 1904 | Frederickton | J. A. Fitch | 1907 | 79 |
| 1904 | 1904 | Quebec | Leonor Waldron Williams | 1915 | 140 |
| 1904 | 1904 | 1850 | - | 1915 | 140 |

Province of Ontario

Archbishop and Vet police

Heaton, D Williams b 1859 (c 1903) 1916
Buckley

Butler

| | | |
|---------------------------------------|------|----|
| Algoma R. F. Smith b 1872 | 1926 | 21 |
| A. J. Jara Derwyn T. Owen b 1876 | 1925 | 86 |
| Ontario C. A. Seager b 1872 | 1926 | 78 |
| Ottawa J. C. Poper b 1859 (June 1912) | 1925 | 74 |
| Toronto J. F. Sweeney b 1857 | 1909 | 27 |

Province of Rupert's Land

Archdiocese of Prince of Canada

Rupert's Land & P. Matheson 1852
(cont. 1903) Archibush p. 1905
1906 1909 1925 1931

E. Arousal

| | | |
|---|------|-----|
| Athabasca E. F. Robb, d 1870 | 1912 | 9 |
| Brandon, W. H. Thomas b 1875 | 1924 | 34 |
| Calgary L. H. Sheta d 1886 | 1927 | 85 |
| Edmonton H. A. Gray b 1872 | 1914 | 31 |
| Keewatin A. D. Dewdney b 1863 | 1921 | 27 |
| Macleod R. C. W. A. Gaudet b 18-- | 1929 | 7 |
| Moosonee J. O. Anderson b 1866 | 1909 | 14 |
| Qu'Appelle W. I. McA. Harding b 1865 | 1909 | 120 |
| Saskatoon G. E. Lloyd b 1861 | 1922 | 74 |
| St. John Isac O. Stringer b 1866 | 1905 | |

Province of British Columbia

Arcl b shop

| | | | |
|-----------------|-----------------------|-------------------------------|------|
| New Beaugunster | A L de Peuer | b 1866 (ca) 1910, Archibald p | |
| | and Metropoli | 1925 | 63 |
| | | L of 1925 | |
| Caledonia | George Alexander Pitt | b - 1928 | 16 |
| Caribou, N | R Adams | b 1877 | 1925 |
| Columbia | C de Veler | Schnefeld | 12 |

AUSTRALIA.

Province of New South Wales.

Archbishop and Metropolitan of New South Wales
and Primate of Australia.

Serve
S/ Insp John Charles Wright, b 1861
(c 1909 Arcl bp 1909 Private 1910) 1909
Lt. Conductor G. A. Darcy Irvine 1915

Each one

| | | | | |
|-----------|--------|-------------------|------|----|
| Arncliffe | W F | Wentworth-Sheila, | | |
| b. 1867 | | | 1916 | 43 |
| Richard | Morace | Crilly & 1886 | 1908 | 55 |
| | | 1890 | 1927 | 68 |
| | | | 5 | 44 |
| | | | 2 | 24 |
| | | | 14 | 37 |

Province of ...

1. *clothes and Metropolitan*

Melbourne & F. W. Head 1919 227

E. chrysus

| | | | |
|-----------------------------|-----------------|------|----|
| Ballarat P & T Crick | b 1882 (c 1921) | 1927 | 85 |
| Bendigo Donald Baker | b 1882 | 1921 | 36 |
| Gippsland G H. Lumsick | b 1881 | 1927 | 34 |
| St Arnaud Melville C James | b 1877 | 1927 | |
| Manoretta John Stephen Hart | | 1927 | 36 |

Province of Queensland

As the station and the station agent

Dr. Abner Gerald Sharp b 1865 (c. 1910
Archib. a 12 Metropol tan, 1921) 1921 115

E. coli O157

| | | | |
|------------------------------|--------|------|----|
| Carpentaria Stephen H Dwyer | b 1884 | 1923 | 14 |
| Ye Qu sen Henry Newton | b 1867 | | 16 |
| (a. 1915) | - | 1923 | 20 |
| Ye Queensland John O Feetham | b 1876 | 1923 | 20 |
| Backhampton Postesque L Ash | b 1882 | 1923 | 20 |

Province of Western Australia

Archives of Metropolitan

Perth H. L. Le Page, b. 1870 c. 1915 1919 72

Ευχαριστώ

| | |
|---|----|
| Bu bury Cecil Wilson b 1859 (1894) 1917 | 34 |
| Kaloon & William E. Elsey, d 1879 1919 | 3 |
| & W Australia John Brewer b 1863 1929 | 4 |

Independent Processes.

| | | | | |
|---|----|---|-----|-----|
| | 97 | 6 | 976 | 105 |
| | | | | 8 |
| " | | | | 200 |
| | | | | 17 |

PROVINCE OF NEW HAMPSHIRE

Arch' shop and Metropolitan

1910 Archbishop of Metropolis in 1925 1925 200

5 11 15
12 13 20

| Christchurch | Campbell | West | West | | |
|----------------------------------|----------|------|------|-------------|----|
| | | | | 1895 | 83 |
| | | | | 20 | 46 |
| | | | | 15 | |
| | | | | 25 | 35 |
| | | | | 25 | |
| John, William L. Radler | | | | 1868 | 28 |
| Walter H. W. Williams | | | | 1899 | |
| By Suff (Astorion) F. A. Bennett | | | | | 72 |
| 1872 | | | | | |
| Walter C. A. Cherrington | | | | 1873 - 1906 | |
| | | | | 1873 - 1906 | 73 |

THE CHURCH OF IRELAND (DISESTABLISHED 1869).

| THE CHURCH OF IRELAND (DISESTABLISHED 1869) | | | | | | | Income of Dec. |
|---|--|-----------|----------------|-----------|--------|----------------|----------------|
| Diocese | Assn 18 14 | Apptd. | Ch Pop. (1902) | Incumbent | Curate | Income of Dec. | |
| Armagh | Most Rev Charles F. D'Arcy D.D. b 1859 | 1920 | 55 359 | 59 | 26 | £2,500 | |
| | (cons 1903) | | | | | | |
| Dublin | Most Rev John A. Fitzgerald Reg. D.D. b 1872 | 1920 | 70 532 | 107 | 77 | 2,500 | |
| | (cons 1915) | | | | | | |
| Meath | Most Rev John Orr D.D. b 1874 | cons 1923 | | | | | |
| | | 1927 | 9 892 | 43 | 2 | 2,500 | |
| Castlet | Rt. Rev Robert Miller D.D. b 1871 | 1919 | 8 271 | 37 | 5 | 1,479 | |
| Cloyne | " | " | " | " | 21 | 1,441 | |
| Cork | " | " | " | " | 13 | 1,703 | |
| Derry | " | " | " | " | 15 | 1,140 | |
| Down | " | " | " | " | 25 | 1,794 | |
| Ashtree | " | " | " | " | 7 | 1,500 | |
| Ashtree | " | " | " | " | 19 | 1,548 | |
| Lisrick | " | " | " | " | 7 | 1,408 | |
| Oxberg | " | " | " | " | 22 | 1,535 | |
| Tuam | " | " | " | " | 3 | 1,403 | |

ST PATRICK'S NATIONAL CATHEDRAL, DUBLIN

Dean & Lady Very Rev Hugh Jackson Lawlor D.D., Litt.D.

GENERAL SYNOD

THE EPISCOPAL CHURCH IN SCOTLAND

The Rt Rev D. Storer, Cons. Cley St. L. Secs. The Rt Rev D. Storer, Cons. Cley St. L.

£2,370
 £817
 £801
 £1,305

declared to be temporary, the system and should be altered when they began to be superstitious. Presbytery was settled in 1590. The restoration of the rights of the bishops, civil and ecclesiastical was never sanctioned.

OTHER PRESBYTERIAN CHURCHES

(1) *The Unit*

1. *Rev. J. C. Sutherland D.D.*
Rev. William Chace K.C. LL.D.
Rev. J. A. Millar M.A. W.S.
Rev. J. F. McLean M.A. W.S.
Rev. J. J. McLean M.A. W.S.
General Trustees and Legal Attorneys
Rev. J. A. Millar, M.A., W.S.
Patent Solicitors
A. B. Spens London

The statistics relate to Great Britain and Ireland only and are for the year 1909.

| | Ministers | Lay Preachers | Members | Chapels | Sunday Schools. |
|------------|-----------|------------------|---------|---------|--------------------|
| Worshipers | 2,804 | 19,611 | 547,730 | 9,041 | 823,320 |
| | 1,092 | 13,110 | 223,915 | 4,515 | 378,581 |
| | 703 | 4,691 | 145,313 | 2,809 | 231,480 |
| | 395 | | 10,973 | 166 | 24,229 |
| | 32 | 496 | 11,104 | 227 | 25,555 |

| WESTMINSTER FRANCIS CARDWELL ARCHBISHOP | | 1896 | | 1897 | | 1898 | | 1899 | | 1900 | | 1901 | | 1902 | | 1903 | | 1904 | | 1905 | | 1906 | | 1907 | | 1908 | | 1909 | | 1910 | | 1911 | | 1912 | | 1913 | | 1914 | | 1915 | | 1916 | | 1917 | | 1918 | | 1919 | | 1920 | | 1921 | | 1922 | | 1923 | | 1924 | | 1925 | | 1926 | | 1927 | | 1928 | | 1929 | | 1930 | | 1931 | | 1932 | | 1933 | | 1934 | | 1935 | | 1936 | | 1937 | | 1938 | | 1939 | | 1940 | | 1941 | | 1942 | | 1943 | | 1944 | | 1945 | | 1946 | | 1947 | | 1948 | | 1949 | | 1950 | | 1951 | | 1952 | | 1953 | | 1954 | | 1955 | | 1956 | | 1957 | | 1958 | | 1959 | | 1960 | | 1961 | | 1962 | | 1963 | | 1964 | | 1965 | | 1966 | | 1967 | | 1968 | | 1969 | | 1970 | | 1971 | | 1972 | | 1973 | | 1974 | | 1975 | | 1976 | | 1977 | | 1978 | | 1979 | | 1980 | | 1981 | | 1982 | | 1983 | | 1984 | | 1985 | | 1986 | | 1987 | | 1988 | | 1989 | | 1990 | | 1991 | | 1992 | | 1993 | | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | | 1999 | | 2000 | | 2001 | | 2002 | | 2003 | | 2004 | | 2005 | | 2006 | | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | | 2018 | | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | 2024 | | 2025 | | 2026 | | 2027 | | 2028 | | 2029 | | 2030 | | 2031 | | 2032 | | 2033 | | 2034 | | 2035 | | 2036 | | 2037 | | 2038 | | 2039 | | 2040 | | 2041 | | 2042 | | 2043 | | 2044 | | 2045 | | 2046 | | 2047 | | 2048 | | 2049 | | 2050 | | 2051 | | 2052 | | 2053 | | 2054 | | 2055 | | 2056 | | 2057 | | 2058 | | 2059 | | 2060 | | 2061 | | 2062 | | 2063 | | 2064 | | 2065 | | 2066 | | 2067 | | 2068 | | 2069 | | 2070 | | 2071 | | 2072 | | 2073 | | 2074 | | 2075 | | 2076 | | 2077 | | 2078 | | 2079 | | 2080 | | 2081 | | 2082 | | 2083 | | 2084 | | 2085 | | 2086 | | 2087 | | 2088 | | 2089 | | 2090 | | 2091 | | 2092 | | 2093 | | 2094 | | 2095 | | 2096 | | 2097 | | 2098 | | 2099 | | 2100 | | 2101 | | 2102 | | 2103 | | 2104 | | 2105 | | 2106 | | 2107 | | 2108 | | 2109 | | 2110 | | 2111 | | 2112 | | 2113 | | 2114 | | 2115 | | 2116 | | 2117 | | 2118 | | 2119 | | 2120 | | 2121 | | 2122 | | 2123 | | 2124 | | 2125 | | 2126 | | 2127 | | 2128 | | 2129 | | 2130 | | 2131 | | 2132 | | 2133 | | 2134 | | 2135 | | 2136 | | 2137 | | 2138 | | 2139 | | 2140 | | 2141 | | 2142 | | 2143 | | 2144 | | 2145 | | 2146 | | 2147 | | 2148 | | 2149 | | 2150 | | 2151 | | 2152 | | 2153 | | 2154 | | 2155 | | 2156 | | 2157 | | 2158 | | 2159 | | 2160 | | 2161 | | 2162 | | 2163 | | 2164 | | 2165 | | 2166 | | 2167 | | 2168 | | 2169 | | 2170 | | 2171 | | 2172 | | 2173 | | 2174 | | 2175 | | 2176 | | 2177 | | 2178 | | 2179 | | 2180 | | 2181 | | 2182 | | 2183 | | 2184 | | 2185 | | 2186 | | 2187 | | 2188 | | 2189 | | 2190 | | 2191 | | 2192 | | 2193 | | 2194 | | 2195 | | 2196 | | 2197 | | 2198 | | 2199 | | 2200 | | 2201 | | 2202 | | 2203 | | 2204 | | 2205 | | 2206 | | 2207 | | 22 | |
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| Delegate Apostolic to S Africa | Alp | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Cathedrals, Churches, &c.

ENGLISH CATHEDRALS.

Admission to Royal Chapels 1s fee of 6d
except on Mondays (open free) wax effigies.

Cathedrals, Churches, &c.

ENGLISH CATHEDRALS.

383

Admission to Royal Chapels by fee of 6d.
except on Mondays (open free), wax candle
6d. Norman undercroft, 3d. Trans pt. (pt.)
on Sundays for service only, and have col.
lighted on general day 1d. and on a - - - 2d. 8d. 10d.

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ST PETER'S Cornhill EC 3 — Rebuilt by Wren, contains a carved choir screen also
 BRISTON INDEPENDENT CHURCH, 364 Frixton Road S W 4 — Rev B Suell, M.A. Sundays, at 11 and 6 40. This volume at 2 00

Educational Statistics.

I.—ELEMENTARY

Statutes require parents in England and Wales

In Scotland there are Preparatory and Secondary Departments under the same Commissioners and Local Authorities as the Elementary schools.

at least 5 years of age

training is provided at the school

Secondary

The aims, methods, and instructions are in marked contrast to the comparative simplicity of

Universities

Many of these institutions now receive annual state grants mainly in the form of "block"

Teachers and Undergraduates

| Teachers | Undergraduates |
|----------|----------------|
| 2,074 | 31,250 |
| 361 | 2,750 |
| 730 | 30,000 |
| 4,165 | 44,000 |

EDUCATION, 1926-27 Elementary (1000)

| England & Wales | Scotland |
|-----------------|-------------|
| £ 3,455,335 | £ 5,660,478 |
| 7,249,044 | |
| 767,030 | 228,006 |
| 3,231,119 | 619,763 |
| 203,057 | 25,560 |
| 482 | 61 |

34,256

110

£44,272,317 £6,423,842

| | ELECT | UNIVERSITY PROFESSORS. | |
|--|-------|---|------|
| Director A. F. Scholfield, M.A. King's | 1923 | Aeronautical Engineering (Francis Mond), Elect. | |
| to the Library H.C. Stanford M.A. Joh | 1927 | B. M. Jones M.A., Exam. | 1929 |
| recesser T. Knowshaw M.A. S. & S. S. S. | | Agricultural Lectur., Sir R. H. Biffen, M.A., | |
| opire Ledells P. Hamblin Smith M.A., | | Cath. | 1908 |
| Pet 1923 C. P. Sumner M.A. Cam | 1922 | Agriculture (Drapers), T. B. Wood, C.B.E., | |
| roctors F. J. Drake M.A. Trin. L. P. | | M.A., Cam. | 1907 |
| Neubair M.A. Cath. | 1929 | Anatomy J. T. Wilson M.A. Joh. | 1920 |
| ms of A. H. Ma. Hun. M.A. (King's) | | Ancient History F. E. Adcock, M.A. (King's) | 1925 |
| was b (Ox.) | | Anglo-Saxon (Lington and Bosworth), | |
| Director of the Observatory Professor A. S. | | H. M. Chadwick M.A. Clare | 1912 |
| Eddington M.A. Trin. | | Animal Pathology J. B. Huxton, M.A. | 1923 |
| Director of the Solar Physics Observatory / | | Arabic (Sir T. Aldrich), R. A. Nicholson, | |
| and Naval Warfare Professor F. J. H. | | Litt. D. Trin. | 1926 |
| Stratton M.A. Trin. | | Arabic (Lord Almoner), A. A. Bayan M.A., | |
| Superintendent of the Museum of Zoology | | Trin. | 1891 |
| C. Y. Cooper M.A. Trin. H. | | Archæology (Dane), E. H. Munn, Litt. D., | |
| Director of the Fitzwilliam Museum and | | Perib. | 1927 |
| Martyr C. at r. C. Cokerell M.A. | | Astronomy and Geography (Low Dean), H. E. | |
| Strickland M.A. Trin. | | Baker, Sc.D. Joh. | 1914 |
| Ed. S. S. | | Astronomy (Plumstead), A. B. Lidington, | |
| Curator of the Library (Vernon) | | M.A. Trin. | 1913 |
| Curator of the Museum of Archaeology and | | Astrophysics F. J. M. Stratton M.A., Cam. | 1923 |
| Ethnology L. Clarke M.A. Trin. H. | | Biochemistry (Sir William Dunn), Sir F. G. | |
| Curator of the Museum of Classical Anti- | | Hopkins M.A., Trin. | 1921 |
| quities A. B. Cook, Litt. D. Queen's | | Biology (Quick), G. H. F. Nuttall, Sc.D., | |
| Director of the Botanic Garden H. Gilbert | | Magd. | 1924 |
| Carter M.A. Trin. | | Botany A. C. Seward, Sc.D., Down | 1906 |
| Librarian of the Law Library T. E. | | Chemistry Sir W. J. Pope K.B.E., M.A., | |
| Lewis Ph.D. Trin. | | (Sud. Suez) | 1908 |
| Representative General Medical Council | | Chinese H. A. Giles M.A. Trin. | 1897 |
| Prof. Sir H. D. Rolleston Bart. M.D. Joh. | | Civil Law (Regius), W. W. Buckland, Litt. D., | |
| Director of the Psychological Laboratory | | Cam. | 1914 |
| F. C. Bartlett M.A. St. John's | | Dietetics (Regius), A. Nairne D.I. Jesus | 1922 |
| Local Examinations Superintendent W. N. Williams | | (Lady Margaret's), J. F. Bethune | |
| M.A., Sch. Syndicate Laureates | | Baker D.D., Lamb. | 1911 |
| Board of Extra-Mural Studies (F. Hickson | | (Verriani), F. C. Burkitt, D.D., | |
| M.A. Trin. | | Trin. | 1903 |
| | | (Hiltebeitel) W. E. Barnes, D.D., Trin. | 1901 |
| | | (Hiltebeitel) J. M. Creech D.D., Trin. | 1906 |
| | | Ecclesiastical History (Dane) J. I. Whitney, | |
| | | D.D., Trin. | 1919 |
| | | Eclectic History, J. H. Clapham, Litt. D., | |
| | | King's | |
| | | English Law (I use I all) P. H. Winfield, | |

Heads of Houses

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UNIVERSITY EXPENDITURE FOR YEAR ENDED

31 July, 1928.

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| Total payments | £194,648 |
| Balance due to Credit | £1,973 |
| | £196,621 |

Mathematical (Pence) J. R. J. T.
M.A., H. M. S. D., M. J. S. S.
Mathematical (I use I all) J. E.
M.A., Trin.
Mathematical and Applied
Maths O.R.E. M.A., Trin.

| | |
|--|------|
| <i>Medicine</i> (Dewdney) J B Bradbury, M D. | 1894 |
| <i>Modern Philosophy and Logic</i> O E Moore, Litt D, Trin | 1925 |
| <i>Modern History</i> (Hogbin), G M Trevelyan M A, Trin | 1926 |
| <i>Moral Philosophy</i> (Hogbin) W R Sorley Litt D, Kings | 1927 |
| <i>Music</i> , E J Dent M A Munk Ainge | 1900 |
| <i>Natural Philosophy</i> (Jacksonian) (T R Wilson M A Sud Sum | 1926 |
| <i>Natural History</i> (Vere Harmsworth) J H Rose, Litt D Christ | 1925 |
| <i>Pathology</i> H R Deane M A Trin II | 1919 |
| <i>Physics</i> (Lugues) Sir H D K Hewitt Bt KCB, M D, Joh | 1922 |
| <i>Physiology</i> Sir J J Thomson M A Hon Sc D Trin | |
| <i>Physical Chemistry</i> T M Lowry CBE M A, Trin II | 1920 |
| <i>Physiology</i> J Barcroft M A King | 1925 |
| <i>Political Economy</i> A C Pigou M A Kings | 1903 |
| <i>Political Science</i> E Barker Litt B, Pol | 1927 |
| <i>Pure Mathematics</i> (Wallerstein) E W Holeton Sc D Christ | |
| <i>Sanskrit</i> E J Rapson M A Joh | 1910 |
| <i>Zoology and Comparative Anatomy</i> I S Gardner M A Cairns | 1906 |

Cambridge Colleges
(With date of foundation)

THE UNIVERSITY OF LONDON
South Kensington S.W. 7 1825, 1900 and
During the Session 1928-29 the total intake
amounted to 22,561 the number of 1929
Students in July, 1928, was 9,958.
1st Tutor, H.M. the King in Council
Chancellor, Rt. Hon. Earl Beauchamp
A.C.M.G., F.C.
1st Chancellor, Sir Gregory F. Water, B.A. M.
Chairman of Convocation, Sir Walter Lutton B.
M.A.
Principal (vacant).
Registrar (Academic Council) Edwin D.
L.L.B., (External Council) G. F. Good.
M.A. (University Extension and Tuition)

THE COURT

THE SEVENTH

Trinity (1896) Dr J J Thompson, M.A., Master
 Holy Trinity (1896) Dr J J Thompson, M.A., Master
 Trinity Hall (1896) H R Dean, M.D., Master
 APERYD FOUNDATION
 Selwyn College (1884) G E Newson, M.A. Master
 New College (1896) W S Thatcher
 M.A. c. 1896

Colleges for Women
GIBSON COLLEGE.

Vestress Miss E. H. Major
 Vice-Vestress Miss H. J. R. M. M.
 Eurgar, Miss F. M. Smith
 Junior Eurgar, Miss E. M. Ro
 Librarian Miss E. S. Fagan
 Secretary Miss M. Clover

NEW HAM COLLEGE

Principal Miss J. P. Strachey
Tutors Miss A. B. Dale M.
Miss M. W. Hughes (acting)
E. rear, Mrs. Lacy

Micros Dr R H Pickard, (Lithgow) p)

LAMPETER

Scotland

UNIVERSITY OF ST ANDREWS 1411
(£42,500)

Principal B. Mc
Vice Principal
Registrar J. A.

NEWCASTLE
COLLEGE
NOTTINGHAM

Nottingham (1880).

Principal W. H. Repton M.A.

Regent J. E. Shirehead

HALLS OF RESIDENCE

Men—Mapperley Hall Warden Prof. H. A. B.

Wortley M.A.

Women—University Park Warden Miss I. de

Castro M.A.

SOUTHAMPTON UNIVERSITY COLLEGE

Principal Kenneth H. Vickers M.A.

Registrar George Grant B.A.

UNITED COLLEGE OF ST. SALVATOR AND
ST. LEONARD

Principal Sir J. C. Irvine C.B.T. LL.D. £2,000

£950

£250

UNIVERSITY OF GLASGOW 1450
(£20,880)

The University of Wales 1893

Chancellor H. R. H. The Prince of

(1902).

Pro-Chancellor Right Hon. W. N.

LL.D.

Vice-Chancellor Principal H. Stuart Jones M.A.

Litt. F.R.S.

Warden Guild of Graduates Miss F. M. Pees B.A.

Registrar D. E. Anthony M.A. (Cathays

Park Cardiff).

Dean of Faculties Emeritus Professor Sir
Hector Cameron C.B.E. LL.D.

Registrar Robert Br. M.A.

QUEEN MARGARET COLLEGE (Wolverhampton)

Miss Frances H. Melville B.D. LL.D.

UNIVERSITY OF ABERDEEN 1494

(£49,000)

Chancellor Lord Meston K.C.S.I. V.D. LL.D.

Rector (1927-30) The Earl of Birkland F.C.

G.C.S.I. D.C.L.

Vice-Chancellor and Principal Very Rev. Sir

George Adam M.A. D.D. F.R.S.

Secretary of the University H. J. Butchart M.A.

T.D. LL.D.

Literary Registrar and Clerk of the General

Council W. Douglas Simpson D.Litt.

UNIVERSITY OF EDINBURGH 1552

Chancellor Rt. Hon. The Earl of Balfour K.G.

O.M. D.C.L.

Rector (1926) F.R.S. Sir John Gilmour F.R.

D.S.O. T.D. M.P. LL.D.

Vice-Chancellor and Principal Sir Thomas H.

Hill K.C.S.I. K.C.I.R. LL.D.

Sec. of University W. A. Fleming LL.M. Advocate

SCOTTISH UNIVERSITY COLLEGE

GLASGOW ROYAL TECHNICAL COLLEGE

George Street, Glasgow (1796).

Director H. J. Blackdale LL.D., F.R.S.E.

Northern Ireland

THE QUEEN'S UNIVERSITY OF BELFAST

1402

Chancellor The Marquess of Londonderry

F.C., M.P., LL.D.

President and Vice-Chancellor F.

Stowe LL.D.

ALEXANDRA HALL.

Warden Mrs. K. G. Thelch M.A.

THE UNIVERSITY COLLEGE OF NORTH

WALES Bangor (1884).

Principal D. F. Evans M.A.

Secretary and Registrar W. P. Wheldon M.A.

M.A. LL.D.

UNIVERSITY HALL.

Warden, Miss M. G. Davis.

THE UNIVERSITY COLLEGE OF SOUTH WALES

AND MONMOUTHSHIRE—Cardiff (1883).

Principal J. F. Rees M.A. M.C.O.U.

Registrar D. J. A. Brown

ABERDARE HALL.

Principal Miss Kate Hurfall.

THE UNIVERSITY COLLEGE OF SWANSEA

Principal C. A. Edwards, D.Sc.

Registrar Edwin Drew

FRICK HALL.

Warden, Miss M. A. Williams M.A.

Secretary Andrew Picken, LL.B.
Representative in Imperial Parliament, Col.
Thomas Sinclair, C.B., M.D.

Irish Free State

UNIVERSITY OF DUBLIN (AND
COLLEGE 1891)

Senior Lecturer M. W. J. Fry, M.A.
Senior Professor W. A. Golligher, Litt.D.
Registrar W. Kennedy, M.A.
Bursar, R. Russell, M.A.
Auditor, W. F. Thrift, M.A.

REGISTRARS OF THE SCHOOLS Etc.

Law, W. A. Golligher, Litt.D.
Physic (Dean of the Faculty) A. F. Dixon, M.D.

Physic (Registrar) George L. Allen, M.A.
Engineering H. Thrift, M.A.
Indian & Home Civil Service E. H. Alton, Litt.D.

Music W. F. Starkie, Litt.D.
Agriculture John Joly, F.R.S.
Commerce & C. Bailey, M.D.
Education R. J. Fynes, M.A.
Lady Registrar, Miss Olive Purser, M.A.

APPOINTMENTS COMMITTEE

Secretary K. C. Bailey, M.D.

NATIONAL UNIVERSITY OF IRELAND

1908

Chancellor Edmund de Valera, LL.D.

British Oversea Universities (With dates of Foundation) AUSTRALIA.

ADELAIDE, S.A. (1874)

CANADA.

CEYLON

CEYLON MEDICAL COLLEGE, Colombo (1876)
UNIVERSITY COLLEGE, Colombo (1921)

HONG KONG

UNIVERSITY OF HONG KONG, Hong Kong (1911)

INDIAN EMPIRE

AGRA UNIVERSITY (1926)
ALIGARH MUSLIM UNIVERSITY (1920)
ALLAHABAD UNIVERSITY (1837)
ANDHRA UNIVERSITY, Bezawada, Madras (1908)
BENARAS HINDU UNIVERSITY (1915)
BOMBAY UNIVERSITY (1857)
CALCUTTA UNIVERSITY (1857)
DACCА UNIVERSITY, Dacca, Bengal (1911)
DELHI UNIVERSITY (1922)
LUCKNOW UNIVERSITY (1920)
MADRAS UNIVERSITY (1857)
MYSORE UNIVERSITY, Mysore and Bangalore (1908)
NAGPUR UNIVERSITY (1923)
ORISSA UNIVERSITY, Hyderabad, Dacca (1917)
PATNA UNIVERSITY (1917)
PUUNJAB UNIVERSITY, Lahore (1882)
RANGOON UNIVERSITY (1920)

JERUSALEM

HEBREW UNIVERSITY Jerusalem (1925)

UNIVERSITY COLLEGE, GALWAY 1845

President, Alexander Anderson, M.A., LL.D.
Registrar, Rev. J. Hynes, B.D.
Bursar, T. Walsh, M.D., D.F.H.

UNIVERSITY COLLEGE, DUBLIN 1909

President Denis J. Coffey, M.A., M.B., LL.D.
Registrar, Prof. Arthur W. Conway, D.Sc. F.R.S.
Secretary and Bursar John W. Bacon, M.A.
Librarian, James J. O'Neill

IRISH UNIVERSITY COLLEGE.

MCCREA MAGEE COLLEGE, LONDON
DUBLIN 1865

(In connexion with the University of Dublin.)

President, Prof. MacMaster, D.Lit.
Secretary Prof. Farley, M.A., M.D.

Universities Bureau

OF THE BRITISH EMPIRE

50 Russell Square, London, W.C.2

OF MEDICINE

(1769)

St. Louis (1915)

NEW ZEALAND

NEWFOUNDLAND

MADRYN CASTLE FARM SCHOOL, Pullhett Car

LAND

AGRICULTURE

ABERDEEN, North of Scotland Coll of Agric
414, Union Street.—See A A Frouser
ABERTSTWTH UNIVERSITY COLLEGE (q r)

ROYAL AIR FORCE STAFF COLLEGE,
Andover

Commandant Air Commodore Edgar R. Ludlo
Hewitt C.B., C.M.G., D.S.O., M.C.

ROYAL AIR FORCE COLLEGE
Cranwell

Commandant Air Vice Marshal F. C. Halahs
C.M.G., C.B.E., D.S.O., M.C.

ART AND ARCHITECTURE

(See also Technical Education)

SCHOOLS OF ART

ABERDEEN, School of Arts and Crafts
BIRMINGHAM, Municipal Schools of Arts and
Crafts.—Director of Art Education, H.
Holden, A.R.C.A.
LACKWORTH School of Arts and Crafts.—Prin-
cipal John Hall, A.R.C.A.
BRADFORD (CITY OF), College of Art and Crafts

*Bartlett School of Architecture, University of London.

*School of Architecture, University of Manchester

Birmingham School of Architecture

R. W. A. School of Architecture, Bristol

School of Architecture, University of Cambridge

School of Architecture, Leeds College of Art

ARCHITECTURE

ARCHITECTURE

LONDON — The Slade School of Fine Art at

*Hall Add
PCIS.

Crafts

CHEMISTRY

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DEFENCE

Army Infantry Brigade G
C.M.G. D.S.O.
Air Force Institute Group Capt. P. L.
de la Ferté C.M.G. 180
Seamless Librarian Maj. T. A. Clement B.E.
M.C.

DENTAL

Sir F. D. Acland Bt. Registrar Norman
C. King
Guy's Hospital Dental School London
Bridge S.E. 1—Dean Prof. T. R. Johnston
M.B. Ch.B. S.D. Dean F. Biquet Lill
M.R.C.S. L.D.S. L.D.S.
Royal Dental Hospital of London School of
Dental Surgery 3a Leicester Sq. W.C. 2
—Dean H. J.
See W. J.
University
School—9

ABRIVEN Miss Dunnett Principal (Dental)
École de Dentiers et Robert Gordon's Tech-
nical College.

DRAMA

ROYAL ACADEMY OF DRAMATIC ART (founded
by H. B. Tree 1904) 62-64 Gower Street, 1

FORESTRY

IMPERIAL FORESTRY INSTITUTE Oxford
Prof. R. C. Truap C.M.G. D.S.O. F.R.S.
P. S. Spokes B.Sc.

JOURNALISM

BRISTOL UNIVERSITY (Certificate in Journal-
ism issued)

LONDON SCHOOL OF JOURNALISM 110 Gt.
Russell Street W.C. 2—Principal Sir J.
Pemberton

LEGAL

THE INNER TEMPLE E.C. 4
The Inner Temple E.C. 4

Rt. Hon. Viscount Sanher G.

Liverpool W. F. C. Sater

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 GUY'S HOSPITAL

KING'S COLLEGE HOSPITAL (Medical and De



MUSIC

LONDON COLLEGE OF MUSIC
61 Marlborough Street W 1Mus D
Mus Holmes.ROYAL ACADEMY OF MUSIC (1822)
York Gate Marylebone Road N W 1I MUSIC
Mus Eng L.S. & Co. u t Kent (1929)
D for Sydney H Nicholson Mus Doc
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K.P. G.C.V.O.

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JANISTS

7
Mus DE OF MUSIC
ford Pd.Director Rear Adm. C J C Little C.B.
ROYAL NAVAL COLLEGE, Dartmouth.
Capt. A. M. J. Dunlop, R.N., Commanding Officer
Commander F. P. B. Keble R.N.
Headmaster E. W. E. Kempson M.C. M.A.ROYAL NAVAL ENGINEERING COLLEGE
Keyham (H.M. Dockyard).Commander A. G. Harris R.N.
H.M.S. "EREBUS" Devonport
Training ship for special Entry Cad
Capt. E. J. Hardman-Jones, O.B.E. R.N.
(Commander) A. M. Peters R.N.C. R.N.Queen's Gate Hall Harrington Road South
Kensington W 8 7
Principal T. H. Yorke Trotter Mus. Doc

WHITAKER

MAY 1930

ROYAL HOSPITAL SCHOOL Greenwich.
Supt Rear Adm L R Oliphant (ret.)
Cashier, Paym. Capt B W G Cook O.B.E.
R.N. (ret.)
Chief Officer Lieut Com G T P Lee R.N.
Medical Officer Surg (apt P M May R.N.
Chaplain Rev A D Culbertson M.A. Rev
G I Sodon B.A.
Headmaster S R Hewitson B. F.R.A.S.

SEA TRAINING SCHOOLS

Sea Training Schools other than those which take only boys intending to be officers together with the numbers of boys sent to sea from these schools in 1927 and 1928 in training in January 1928.

TRAINING SHIPS AND SCHOOLS FOR MERCHANT SERVICE RATINGS

| Name | Location | Sea ratings 1927 | Train- ing Jan 1928 |
|--|-----------------------|------------------|---------------------|
| | | M M R N | |
| Arcthusa | Greenhithe | 43 | 92 |
| Warwick | Grays | 76 | 65 |
| Finnmouth | Grays | 134 | 15 |
| Indefatigable | Liverpool | 46* | 1 |
| Mars | Dundee | 18 | 1 |
| Cornwall | Denton near Gravesend | 41 | — |
| Wellesley Nautical School | Llith | 25 | 5 |
| Lancashire and National Sea Training Homes | Wallasey, Cheshire | 70 | 21 |
| Watts Naval Training School | Elmham, Norfolk | 2 | 30 |
| Incorporated National Nautical School | Portsmouth, Somerset | 17 | — |
| Nautical Training School | Heswall, Cheshire | 41 | — |
| Sea School and T.S. Triton | Gravesend | 752 | — |
| Prince of Wales Sea Training Hostel | London E. | 65 | — |
| | | 1,333 | 134 |
| | | | 1,565 |

* In year ended March 31 1927

TRAINING SHIPS

Royal Navy

For

Mercantile Marine

For Officers

THAMES NAUTICAL TRAINING COLLEGE (INCORPORATED)—H.M.S. Worcester, off Greenhithe.
Capt Supt, Lieut Com G C Steele V.E.
R.N. Sec, F H Stafford, O.B.E., 72, Mark Lane E.C.3.

CAIET SCHOOL SHIP Conway, Rock Ferry Birkenhead (Training Officers for Sea Service)
Capt Commr R A ...

Dr

For Seamen.

TRAINING SHIP *Arcthusa* off Greenhithe, Kent (Shaftebury Homes and "Arcthusa" Training ship)

SCHOOL OF ORIENTAL STUDIES

London Institution, Finsbury Circus E.C.2.
Chairman of Governing Body, Sir Harry L. Stephen Bt.M.
Director, Prof Sir E. Denison Ross C.I.E., Ph.D.
Secretary, Miss C. L. Clegg

PHARMACY.

Polytechnics aided by

THE LONDON COUNTY COUNCIL

CHURCH, R.A.
TRADE SCHOOL FOR GIRLS, Queen Square
Floomsbury, W.C.1—Headmistress, Miss A.
Crawley R.A.

Schools of Art aided by the L.C.C.
BLACKHEATH, LEE, LEWISHAM AND GREENWICH
Lee Road, Blackheath, S.E.3—Principal

HOLME ELECTRICAL ENGINEERING

II.—OTHER LONDON INSTITUTIONS.

Imperial College of Science and Technology
South Kensington N W 2
Director H M TRICK

WILKINSON, M Sc
SCHOOL OF MOTOR BODY AND CARRIAGE BUIL

WILKINSON, M Sc
WILLESDEN POLYTECHNIC Priory Park Road
N W 6.—Principal, A J Bird.

ENGLISH TECHNICAL COLLEGES.

Mining J J Truscott; Mine Surveying,
(vacant) Mining Geology W W Watts,
F.R.S., Metallurgy Sir Harold Carpenter,
F.R.S., Oil Technology W. W. Watts, F.R.S.

(Techn Coll, Aston).—Princ, H W Webb
M Sc
BLACKBURN (Munic).—Head, W Wilkinson, F.R.S.
BLACKPOOL.—Princ, W Jones
BOLTON (Munic).—Director, W Wilkinson

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Princ, Maurice Wilson, M Inst C.E.
EAST LONDON COLLEGE (see University of
London)

A. J. BAKERELL
BURY (Munic).—Princ, M Tomlinson, M A.
CAMBORNE (Sch of Metalliferous Mining).—
Princ, P A Thomas, M I M M

Calvinistic Methodist or Presbyterian Church of Wales

ABERYSTWYTH—Principal, Rev H

Hughes, B D

BALA—Principal, Rev David Phillips, M

Methodist

BELFAST—Princ Rev J C Robertson F

Rev T W Barrett F

Congregational

Rev J A Gwynne—Princ Rev

J A Gwynne

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DUBLIN (Baptist Coll.)—Princ, T H Spurgeon, B D

MAHJ DUBLIN—Princ, Rev H McLachlan B D

Moravian

FAIRFIELD (Manchester)—Princ Rev G W M MacLeavy, B D

Theology Unfettered by Dogma

ALI NATIONS BIBLE COLLEGE Beulah Hill, Upper Norwood S E 1—Princ pal Rev H S Cuff B D

CARMARTHEN PRESBYTERIAN COLLEGE—Princ pal, Rev J Park Davies B D

OXFORD (Manchester Coll.)—Principal, Rev L P Jacks, B D

Jews' College.

JEWS COLLEGE, Queen Square House, W C 1, President, Very Rev Dr J W Hertz (Chief Rabbi).

Principal, Prof A Buehler, Ph.D.

Secretary, Myer Stephany

TRAINING COLLEGES

For Elementary Teachers

M = For Men W = For Women

B J In M A
-Miss M M

W - Miss K.
ID sc

Wm W Parry,
J M - Fer

-Miss A. E.

-Rev

For Secondary Teachers

M = For Men W = For Women
(In addition to the Universities & v)

ABINGDON M & W—

ABINGDON M & W—C R Chapple M A
BAYDON M & W—W P Wheldon D S O L L S
CAMBRIDGE (Tr Coll Post-Graduate) W—Miss
M H Wood M A Litt D

CHIPPING NORTON (Heythrop College R.C.)
M Rev J Bolland M A

EDINBURGH (St George's Training Coll) W—
Miss M C Aitken M A

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Dept) M & W Prof S H Watkins Ph D

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R L N W 6) W—Miss K L Johnston, M A

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Kulham S W 6—Warden Miss C W L Kham
BRISTOL (Barton Hill)—Warden Miss h Orpen
BROWNING (ROBERT) SETTLEMENT Brownl
Street Walworth S E 17—Warden Rev J A
Graves B D

CAIUS COLLEGE MISSION SETTLEMENT Battersea
S W 11—Warden, Rev H. R. H. Cony M A

CAMBRIDGE HOUSE 131 Canberwell Road S E
—Head Rev H K F Smith B A

CANNING TOWN WOMEN'S SETTLEMENT 81 Bsl
in Road E 16 Warden Miss C Toveis

CHELSEA LADIES COLLEGE SETTLEMENT
(St. Hilda's), 2 Old Nichol Street Beth
Green E 2—Warden Miss Bruce

DOCKLAND SETTLEMENTS No 1 Canning Low
E 16 No 2, Isle of Dogs E 14 No 3 Bristle
No 4 Rotherhithe E—Hon. Warden
Kno. ede Coy J P

—Warden M

See 30 to
—Ma veger a

NOTTINGHAM University College & v

OXFORD (15 Norham Gardens)
Director George Smith M A
(Home & S de) Miss E. M. Talbot

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CENTRAL JOINT ADVISORY COM
TUTORIAL CLASSES 16 Harpur
born, W C 1

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ROYAL COLLEGE OF VETERINARY SURGEONS
101 Ed Lion Square W C 1

Free Sent Prof J F Craig M A M I C V S
Sec F B Black LL D

See T Fernie

MANFIELD HOUSE Poor Man's Lawyer
Barking Rd E 13

MARY WARD HOUSE, late PARNHAM EDWARD
SETTLEMENT Tavistock Place W C 1—H
Warden Horace Fleming M A J P

Letha Crie

LVS 175 Le
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ones
ent and E
No d Stud

SCIENCE

Director Prof Stale-Jones

ROYAL (DICK) VETERINARY COLL E L H baird
Prinipal Dr O Clarnock I alley

VETERINARY COLLEGE Brc leuel St Gla now
Principal A W Whitchoie

VETERINARY COLLEGE OF IRELAND Stelbourne
Road Ballsbridge Dubl 1
Principal Prof J F Craig

UNIVERSITY SETTLEMENTS &c

REPMOND SETTLEMENT Farncombe Street
Jamaica Road S W 16—Warden Rev J Wott
Lidge 1, P D Women's Work. Head Miss E
Haslam

REINHARD BAR & ST CE RGEN JEWELRY
SETTLEMENT 15 Delta Street E 1—Warden
R L Q Hen iq co J P

BIRMINGHAM SETTLEMENT 3 B & 1 det Lane
Birmingham—Joint Warden Miss Moteford
Miss M Moteford

ST MARGARET'S HOUSE (Wu e s Branch
Oxford House), 21 Old Ford Road Beth
Green E 2—Head M 16 Kelly

TALBOT SETTLEMENT (Women's Side of C
bridge House) 48 Addison Square Canl
well S E 5—Head Miss Helen Pence

TOYNBEE HALL EDUCATIONAL SETTLEMENT
28 Commercial Street, Whitechapel E 1
Warden, J J Mallon M A J P

TOYNBEE POOR MAN'S LAWYER (East Lon
Le, al Protection Committee), Toynbee Ha
WOMEN'S UNIVERSITY SETTLEMENT 44 Ne, 201
Blackfriars Road S E 1—Warden, Miss E
Calkin.

WOODPOCK SETTLEMENT Nelly Oak P, rml
HALL (Friends)—Warden Francis L F

WORKING WOMEN'S COLL

RESIDENTIAL COLLEGE FOR W
(Incorporated), Hillcroft Col
Bury—Principal, Miss F

Name of School

Fees

Boys

Annual Fees
See note 11
1 - Day BoysHeadmaster
See note 10

England and Wales

Abington Herk

2372 140

£86 98

D £18

W. M. Grundy

Allenhurst, Elstree Herk.

2397 250

£123

D £55

H. M. Beck

Anpleforth (R.C.), York

2802 200

£100

Beaumont

2802 200

£100

Lodford

2802 200

£100

Be lford M

2802 200

£100

Bristol Gr

2802 200

£100

Bromsgrove

2802 200

£100

Bury Gr., J.

2802 200

£100

Cambridge

2802 200

£100

Carlisle Gr

2802 200

£100

Caterham

2802 200

£100

Charterhouse

2802 200

£100

Cheltenham

2802 200

£100

Chigwell E

2802 200

£100

Downside (R.C.) Bath

2605 330

£190

Rev B. S. Trafford.

| Name of School | Foundd | No of Boys | Annual Fees See note (a) D=Day Boys | Headmaster See note (c) |
|----------------|--------|------------|---|----------------------------|
|----------------|--------|------------|---|----------------------------|

| | | | | |
|--|------|-----|-------|-----------|
| Head, N.W. & Haberdashers Askes Hatcham S.E. 14. | 1877 | 511 | D £16 | John Lees |
|--|------|-----|-------|-----------|

| Name of School | Founded | No. of Boys | Annual Fees See note (a) D—Day Boys | | Headmaster See note (b) |
|--|---------|-------------|---|----------|----------------------------|
| Australia. | | | | | |
| N. S. W. — | | | | | |
| Armistead Sch. Sydney | 1869 | 640 | £118 | D £36 | Rev H Sanger |
| C. of E. Gr Sch. Sydney | 1834 | 432 | £126 | D £39 | L. C. Robson M.C. |
| Kings Sch. Parramatta | 1853 | 319 | £102 | D £29 | Rev E. M. Baker |
| Newington Coll. Stanmore | | | | | Rev C. J. Prescott. |
| Victoria — | | | | | |
| C. of E. Gr Sch. Melbourne | 1858 | 1100 | £140 | D £40 | R. P. Franklin. |
| Geelong Coll. Melbourne | 1801 | 300 | £122 | | Do. " |
| Geelong Gr Sch. Corio | | | | | |
| Sc. Sch. Coll. Melbourne | | | | | |
| Wesley Coll. Melbourne | | | | | |
| Xavier Coll. (R.C.), Melb. | | | | | |
| South Australia — | | | | | |
| Collegiate Sch. of St. Peter, Adelaide | 1847 | 700 | £130 | D £50 | Rev K. J. F. Bickersteth |
| Prince Alfred Coll. Adelaide | 1859 | 425 | £81 105. | D £18 27 | W. R. Hayly |
| New Zealand | | | | | |
| Auckland Gr Sch. | 1869 | 950 | | D £11 | R. J. D. Mahon |
| Auckland Kings Coll. | 1854 | 250 | £109 | D £30 | Rev H. K. Archdall. |
| Christchurch, Christ's Coll. | 1855 | 327 | £130 | D £13 | Rev E. C. Croase, D.D., |
| Timaru High Sch. | | | | | W. Thomas |
| Waikato High Sch. Oamaru | 1878 | 500 | £80 | D £11 | F. Milner C.M.G. |
| Wanganui Collegiate | 1852 | 270 | £120 | | Rev C. E. Pierce |
| Union of South Africa. | | | | | |
| St. Andrew's Coll. Grahamstown | 1854 | 300 | £150 | D £50 | Rev P. W. H. Kettlewell |
| Diocesan Coll., Rondebosch | 1849 | 420 | £105 | D £40 | Rev R. H. C. Birt. |
| West Indies | | | | | |
| Harrison Coll., Barbados | 1733 | 251 | | D £15 | H. N. Haskell. |

SCHOLASTIC ASSOCIATIONS

BOYS.

THE HEADMASTERS' CONFERENCE (see p. 338).
THE INCORPORATED ASSOCIATION OF HEAD

CHURCH LADS' BRIGADE

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.

Secondary Schools

THE INCORPORATED ASSOCIATION OF HEAD
MASTERS 29 Gordon Square W.C.2
President W. Jenkyn

CHESTER—
City and County—J. K. Wilkins
King's Sch.—See H.M.C.
St. John's Sch.—D. H. McCurtain

Headmasters' Conf.
Denotes Menber of I.A.H.M.
Denotes Dual Sch. (L.O.s and I.O.s)

Stockport Gr.—C. L. Oakes
Stockport Municipal Sec.—M. J. H.
WALLASEY—
Wallasey Gr.—P. Wilkinson
Oldershaw Sec.—A. B. Archer
Warrington (Laidy Graze Gr.—)
Glaspool M.C.
WINSFORD (Verdin County)—L. P. New

Bedfordshire—
BEDFORD—
Bedford Gr.—See H.M.C.
Bedford Model—See H.M.C.
DUNSTABLE (Lat.) Gr.—A. & F. Evans
FIGHTON BL. (Lat.)—Fairbairner
LUTON (Model Sch.)—I. A. E. Newberry

Cornwall—
BODMIN (County)—J. R. Wilkinson
BLIDE (County)—W. W. Wright
ALLINGTON (County)—A. J. Freeman
ALNFORD (Gr.)—C. E. Leese
FALMOUTH (Gr.)—P. D. Goodall
WEX (County)—L. H. Fawcett
HELSTON (County)—H. E. B. Dransfield

Berkshire—
ABINGDON (F. Inst. Sch.)—See H.M.C.
HYPERKILL (H. Inst. Sch.)—F. Cleave
BRAFIELD (H. Inst.)—See H.M.C.
MAIDENHEAD (Co. Sch.)—A. E. Brooks
NEWBURY (Gr.)—T. J. Hailley
RADLEY (Coll.)—See H.M.C.
READING—
Leighton Park—See H.M.C.
Reading Sch.—See H.M.C.
WALLINGFORD (County Gr.)—J. Moody
WANTAGE (King Alfred's Gr.)—Rev. F. C. Stocks
WELLINGTON (Coll.)—See H.M.C.
WINDSOR—
Winisor County—G. Gammon
Imperial Service Coll.—See H.M.C.

LANCHESTER—
Dunheved Coll.—B. B. Hardy J.F.
Horwell Gr.—H. E. Richardson
LISKEARD (County)—G. C. Harrison
NEWCASTLE (County)—G. H. Wilkery
FELTON (County)—G. L. Bradley
LEDFORTH (County)—T. Shopland J.I.
BALTASH (County)—H. J. Hewitt
ST. ARSTELL (County)—W. V. Farrit
THURRO—
Thuro Coll.—Dr. E. H. Magson
Thuro Cathedral Sch.—Rev. Canon

HIGH WYCOMBE (Royal Gr.)—U. A. W.
son J.P.
SLOUGH (Sec.)—E. F. Clarke M.C.
WOLVERTON (Sec.)—E. J. Boyce

Cumberland—
ALSTON (S. King's)—W. Lawson
BRAMPTON (Sec.)—G. R. Wood
CARLISLE (Gr.)—See H.M.C.
COCKFORTH (County Sec.)—J. G. McIntosh
KESWICK (High Sch.)—H. W. Howe
MILTON (Sec.)—J. Sharp
PENRITH (Gr.)—W. H. B. Leech
ST. BEES (Gr.)—See H.M.C.
WHITHAVEN (County Sec.)—A. Clifford
WIGTON—
Friends Sch.—D. W. Reed
Wigton Sch.—W. Dazeley
WORTHINGTON (County Sec.)—A. B. Coles

Cambridgeshire and Isle of Ely—
CAMBRIDGE—
Leys Sch.—See H.M.C.
Perse Sch.—See H.M.C.

Derbyshire—
ALFRETON (County Sec.)—W. J. Paynter
ASHBOURNE (Queen Elizabeth's Gr.)—C. Ball
BARKWELL (Lady Manners)—I. P. Macdonald
BLIFER (Sec.)—W. W. Tunnicliffe
BUXTON (Coll.)—A. D. C. Mason
CHESTERFIELD (Gr.)—A. C. Bescoby
LAT. (K.O.s) (Sec.)—G. S. Hollister
DERBY—
Derby Sch.—Rev. A. Clifton Knight
Derby Municipal Sec.—W. A. Macfarlane

Cheshire—

- [illegible]

- ***CHORLTON** (Municipal High)—A F Chappell, M.C.
 ***CLITHEROE** (Royal Gr)—C M Henderson
 ***COLNE** (Sec)—E A Howells
 ***DAWKEN** (Sec)—R W Ferguson
 ***ECCLES** (Sec)—T I Cowlishaw
 ***FARNWORTH BOLTON** (Gr)—J McAlister
 ***FLEETWOOD** (Sec)—A Brier
 ***GREAT CROFT** (Merchant Taylors Sch)—Sec H.M.C.
 ***HARDWORTH POULTON** (Baldess)—F J Stafford

LIVERPOOL—

- ***Liverpool Coll**—See H.M.C.
 ***Alsop High Sch**—F B Halford
 ***Liverpool Institute**—Rev H H Symonds
 ***Liverpool Collegiate Sch.**—A. M. Gibson
 ***Holt Sec.**—C W Bailey
 ***Oulton Sec.**—W J R Gibbs
 ***Quarry Bank High Sch**—P F Bailey
 ***LITHAM** (King Edward VII Sch)—J R. L. Peary

MANCHESTER—

- ***Manchester Gr Sch**—See H.M.C.
 ***Hulme Gr**—Trevor Danks
 ***Manchester Central High Sch**—R. Crosthwaite
 ***North Manchester School**—A W Dennis
 ***North Manchester Music**—J C Burnett
 ***South Manchester Music**—W S Montgomerie

- ***MIDDLETON** (Gr)—H Bromley
 ***MOFFCAME** (Gr)—A. A. A. A.
 ***NELSON** (Sec)—A. A. Patrick
OLDHAM—
 ***Hulme Gr**—A G Tickford
 ***Oldham Sec**—G M Handley
 ***ORMSKIRK** (Gr)—Rev J R. Bate

WARRINGTON—

- ***Boteler Gr**—Rev H Gray
 ***Warrington Sec.**—J A Broome
 ***WIDEN** (Sec)—H Green
 ***WIDEN** (Gr)—J M Blair

Lancashire—

- ***ACHTON DALE ZOOCH** (Gr)—T A Woodcock
 ***BARFORD** (Gr)—T G Wilkinson
 ***COALVILLE** (County Gr)—A. Rigby
 ***HIVECLAY** (Gr)—A E. A. Cushead
 ***LAITHORTH** (Gr)—J E. Elwell

LEICESTER—

- ***MELTON MOWBRAY** (K. Edwards Sch)—R Stuart Smith
 ***QUORBY** (The Rawlins Gr)—G Keith Thomson

Lincolnshire—

- ***Lincoln Gr**—C E. Young
 ***Muncie**—A. E. Collins

Bow, E. 3—

- ***Coopers Company's Sch**—S. Elford
BRIXTON R.W.
 ***Strand Sch.** Elm Park—L. D. Dawe
BROCKLEY S.E. 4—
 ***County Sch.**—J F. Fisherwood
CANBERRA S.E. 5—
 ***Wilson's Gr Sch.**—T H Knight
CATFORD BRIDGE S.E. 6—
 ***Dunstan's Coll.**—Per F G Forder
CHURCH S.W. 10—
 ***Sloane Sch.** Mortensia Rd.—G H S. Evans
CITY, E.C.—
 ***Central Foundation Sch.**—M. G. Gittins

- ***Alley's Sch.**—E. D. Henderson
FOREST HILL S.E. (variant)
GROVE S.W. 5—
 ***Wm Ellis Sch.**—Dr T Crockett
GREENWICH S.E. 3—
 ***Ross Sch. for Boys**—A H Hope
HAYNESWITH W. 6—
 ***Laymer Upper Sch.**—Rev Dr F Haymer
 ***University Coll.**—W H

HATCUAN, S.E. 15—

*Halberdashers Askes Sch—See H M C

HOLLOWAY—

*Holloway Sch—See H M C

*Holloway Sch—See H M C

*Holloway Sch—See H M C

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TOTTENHAM—

*Tottenham County—C. H. Peters.

*Tottenham Gr—W. J. Halliwin.

*TOTTENHAM—Thames Valley County Sch.

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*TOTTENHAM—Thames Valley County Sch.

*Tottenham Gr—W. J. Halliwin.

*TOTTENHAM—Thames Valley County Sch.

Middlesex—

*ACTON (County)—G. C. T. Giles.

*ASHFORD (County)—T. H. Adams, O B E

*BISHOPSTOCKINGHAM (County)—W. Cartan

*BURNLEY (County)—L. Marsh

*EDMONTON—

*Edmonton Sch.—V. S. E. Davis

*Edmonton County Sch.—J. North

*ENFIELD (Gr)—E. M. Eagles

*FINCHLEY—

*Christ's Coll.—H. B. Pegrum

*Finchley County—C. H. Carr

*Woodhouse Sch.—E. Barlow Butlin

*HAMPTON (Gr)—A. S. Mason, O B E

*HARROW—

*Harrow Sch.—See H M C

*Lower School of John Lyon—O. A. Le Beau

*County High—Pandall Williams

*HENDON (County)—J. G. Barr

*HORNSEY—

*Hornsey County—Dr. H. E. Pigott

*Stationers Sch.—J. H. H. H. H.

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*BEDLINGTON (Sec)—A. J. Williams

*BRIDFORD (Gr)—See H M C

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Oxfordshire—

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Rutlandshire—

- OAKHAM (Oakham Sch.)—See H M C
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Sussex—

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 RUDE—
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 *Lower Sch—L Wheeler, D S G

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 J L Johnson
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- Ashe
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 *RIMINGTON (Sch)—F R Richards
 *Hull—
 *Hymers Coll—See H M C
 *Hull Gr—J Major
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W M CTH (4 h)—See H M C
 +W M TAIN A-H (C 1013)—W L Williams
 +W M TAIN 10 (Sec)—P Silk
 +W M TAIN (Intermediate 41)—J W Jones
 +W M TAIN (C 1013)—I P Francis
 +W M TAIN (Sec)—W David
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 *Newport High 41—See H M C
 *Newport Mun—See H M C
 *NEWTON (1)—R M E
 *OLD PT (2)—J J
 *PPMBP KE DICK—H M C
 *PENARTH (Inter ed at 1)—I M Judt
 PENOAN (Well 1013)—I M Knight
 PENTR (2)—A H Jg
 *PENTR 1013—P Pritcherch
 *PONTAPDAW (1013)—I W I mas
 *PONTLANSFRA TH—111 v
 *PNT 1013—R L
 *PNT 1013—F H es 11 as
 *PONTWALN (1013)—W Aifre 1 H ghes
 P RTH—
 Po 1013—E T C mlt
 Port 1013—D 1013
 +PORTMADON (1013)—W Powlada
 PPT TALR T
 *PPT 1013—W H G 1013
 *PPT 1013—F W Lew 1
 PPT 1013—A 1013
 +PHELLI (1013)—V 1013
 RHOS ON SEA (1013)—Re B Langstaff

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 Epworth Coll—J C Beattie
 PHYMPT (Sec)—T Price
 *PUBOY (Or)—Rev D J Bowen
 ST ACPH (County)—E Maluer
 +ST DAVID (County)—H Jenkins
 SWANSEA—
 *Swansea Or—J Grey Morgans
 Swansea Munic—L John B 10
 TENVY (County)—W E Thomas
 +TONTANDY (Sec)—Vacant
 *TOWTY (County)—Dr G Brychan Rees
 TREDGAR (County)—J Saunders
 +TREDGAR (County)—G T Lewis
 *WFLSHOL (County)—R E Owen
 WHITLAND (County)—D 1013
 *WILKINHAM (County)—F P Dodd
 *WILKINHAM (Intermediate)—Henry Rees
 +WILKINHAM (County)—W E Rees
 Channel Islands
 *GILFERNPT (Queen Elizabeth Coll)—See H M C
 *JFRSEY (Victoria Coll)—See H M C
 Isle of Man—
 CA TLPT V (King William's Coll)—See H M C
 D. 1013 (H gh 1013)—A H 1013

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THE GIRL GUIDES ASSOCIATION

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 initial camp held 13

[illegible]

| School | Fees | No of Girls | Annual Fees (see note (a) D=Day Girls | Headmistress. see note (b) |
|--|------|-------------|---|-------------------------------|
| Liverpool College, Liverpool London | 1856 | 350 | D£12-15 | F M Fordham |
| | | | D£17-19 | Ethel Hutchings |
| | | | D£12 | M K Cotton |
| | | | D£14 | M A Burgess |
| | | | D£32 | I M Drummond |
| | | | D£15 | Olive Wright |
| | | | D£13-15 | H D Bugby |
| | | | D£16 | K J Zachary |
| Haberdashers Askes Hatcham | 1876 | 389 | D£16 | A I Nolting |
| | | | D£31-63 | W R Crapper |
| | | | D£63 | A R Morison |
| | | | D£13 | F Moberley Bell |
| | | | D£13 | J Franklin |
| | | | D£15 | M Dorothy Brock, OBE |
| | | | D£13 | M E Parker |
| | | | D£32-63 | Eleanor Wilson |
| | | | D£19-55 | Joseph Edwards, Prin |
| | | | D£47 | D Apperson |
| | | | D£8-15 | Ethel Strudwick |
| | | | D£11 | M G Irodham |
| | | | D£12 | F A Bristol |
| | | | D£32-48 | Winifred M Kidd |
| | | | D£24 | I M Brooks |
| | | | D£16 | M G Clarke |
| | | | D£32 | F Fordham |
| | | | D£25 | Mrs. Heuman |
| | | | D£31 | M G Oling |
| | | | D£13-36 | A P Curry |
| | | | D£10 | L M Gurney |
| | | | D£10 | W A Vivian |
| | | | D£12-17 | Katherine Reeve |
| | | | D£7 | C M Wallace |
| | | | D£10 | P E Whitaker |
| | | | D£10 | Jessie Sprunt |
| | | | D£12-18 | Mrs D L Easlemont |
| | | | D£21-26 | E M Wren |
| | | | | E Wainwright |
| | | | | M H Cattle |
| | | | | A E Moore |

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Steel Grate and General Metal Workers'
National Union of Fillingham Street Lither-

ham—See Alan Bennett

T. J. O. (Hannell)

Hungerford, W.P.

United Club—Chairman Sir John Gai

M.P., Hon. Sec., Cyril T. Wilson & Co. Con-

tional Club Northumberland Avenue, W.C.

Hotel Commercial Travellers' Association

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Turf Protection Society, National, 23 Pen-
bridge St., W. 1—See, A. Harrison Ford

Young Socialist League, 28 Brick
Bethnal Green, E. 2—See, J. Bloomsfield

* For further particulars of Hospitals see Advertisement pages.

GENERAL HOSPITAL

Socialist Labour Party of Great Britain, 50
 Finsbury Street, Glasgow W. Sec. (Vacant).
 Socialist Workers' School of Commerce, 129 Kirkburn
 Avenue, Camislaw, Glasgow W. Sec. Mrs. C.
 McNab Shaw.

Steam Engine Makers Society, 27 Thomas
 St. Blenheim, Manchester. Sec. W. J. Dainton.
 Street Carriage and General Metal Workers
 National Union of Birmingham Street Carriage
 Makers. Sec. A. J. Bennett.

Tailors & Tailor-menders Society, 415 Oxford
 Road, Manchester. Sec. G. Boulton.
 Tailors and Dressmakers' Trade Union
 20 Park Lane, Leeds. Sec. A. C. Miley.
 Teachers' National Union of Hamilton House
 Mabledon Place, W.C. Sec. F. W. Goldstone.

Textile Factory Workers' Association, United
 Weavers' Office, Hartmain Place, Oldham. Sec.
 J. Bell, J.P.

W. Cecil Heath, M.A.

Worshipful Artisan Fraternity, 18 Charing Cross
 Road, W.C. Sec. A. V. Drew.
 Vehicle Builders' National Union of Great Britain
 Street, Oxford Road, Manchester. Sec. James
 Nicholson.

Waterworks Employers' National Union of
 10 Tatham Road, St. Michael's Park, Wilkes.
 W.C. Sec. A. L. Harwood.

Weavers' Association, Amalgamated, Esplanade
 Chambers, Accrington. Sec. A. V. Smith.

Weights & Measures, Incorporated Society of
 Inspectors of Coventry. Sec. J. E. Allen.
 Welsh National Liberal Federation, 48 Chancery
 Street, Cardiff. Sec. D. T. Salathiel.

Wholesale Stationers and Paper Merchants
 National Association of 11 King's Bench Walk
 E.C. 4. Sec. J. Thorne.

Wholesale Textile Association (Incorporated)
 Oxford Court, Cannon Street, E.C. 4. Sec. W. J.

33 Great T. St.
 E.C. 4.

Sec. J. E. Allen.

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See also 380.

Travellers' Alliance—See "National Union of
 Railwaymen National Transport Workers
 Federation and Miners Federation of Great
 Britain.

Travellers' Protection Society, Antioch, 23 Fern
 bridge, W.C. Sec. A. Harrison Ford.

Municipal, 28 Tavistock Square, W.C. Sec. J. Thorne M.P.

Workers' Union "Highfield" Golders Green
 Road, N.W. Sec. C. Duncan M.P.

Young Socialist League, 28 Brick Lane
 Bethnal Green, E.C. Sec. J. Bloomfield.

* For further particulars of Hospitals see Advertisement pages

GENERAL HOSPITALS

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Sun 3 to 5 House Gov E W Mor
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MILLETT Hospital, Mortimer St., W 1 A
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to 4 Sec. J Courtney Buchanan C.B.E.
Matron, Miss E. A. Harrison, A.R.C.

for Convalescent Children—3 Anne's Home,
Herne Bay, Kent.
For Ophthalmia—White Oak, Swanley June
Hon Kent

| Beds | Rate per Annum |
|--------|----------------|
| 13 503 | 884 |
| 13 819 | 889 |
| 13 097 | 836 |
| 12 690 | 842 |
| 12 382 | 823 |
| 10,108 | 772 |
| 12 066 | 798 |

LORD MAYOR INFIRMARY (CRIPPLES HOSPITAL)
AND COLLEGE, ALTON and HAYLOR IN HANTS

1926
1927

CITY OF LONDON MATERNITY HOSPITAL, 47
 1 and 1 1/2 (with 12) School for 1000 all
 students, midwives and 12 midwives. In
 patients at 1000 to 1200 and 1200 at 9
 Secretary Ralph E. C. C. C. C.

EAST END MATERNITY HOSPITAL, Gate East F. J.
 M. there. 1200 to 1200, 1200 to 1200. C. C.
 Commercial Rd. E. 1200 Lady C. J. M.
 Alderson. We B. A. Page

GENERAL LINGERS HOSPITAL, 1200 F. J. 1200
 both. Patients requiring letters can be had

QUEEN CHARLOTTE MATERNITY HOSPITAL AND
 MIDWIFERY TRAINING SCHOOL, Mary Street

MENTAL HOSPITALS

PETHELM FATAL HOSPITAL, 1200 F. J. 1200

CITY OF LONDON
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Med. Soc. T. M. 1. 1200 Hall M. F.
 For 1200 Hall M. F. 1200 Hall M. F.
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HOME COUNCIL FOR LAW UNIONS
 The 1200 Hall M. F. 1200 Hall M. F.
 1200 Hall M. F. 1200 Hall M. F.

HACKNEY LANCET H. M. F. 1200 Hall M. F.

ALYCE
 GUN M.

Private rooms for ladies only - Wel. Supd.,
Edward Napother, M.D., F.R.C.S., F.R.C.I.

THE HOSPITAL FOR DISEASES OF THE SKIN

PAY HOSPITALS

WOMEN

OMFY, Arthur SL

HOME FOR CONFIRMED INVALID
and Military Terrace, N 5
of limited incomes.

Adelphi Terrace Bridge (built in 1750 and then representing a view



CHARTERHOUSE, in Charterhouse
E.C. 2 (Master, Rev W I B Hayt)

CHURCH, St W - - - - - GUILDHALL, King Street City E.C. 2 (date)

HOUSE GUARDS Whitehall S.W. 1. Airl
way and offices built about 1750. The local
quarters of the Commander in Chief until
1904. The mounting of the guard (1st or 2nd
Life Guards or Royal Horse Guards) at 11 a.m.
(to 2 a.m. on Sundays and the duties at
4 p.m. are performed even less only
those of the Lord Chamberlain
through the gates of the
Guards Parade. The
the Colour is topped
has been enlarged to 30 ft
Square is 168 850 sq ft
136 900 sq ft. The estate 100 000 sq ft).

KINGS COLLEGE HOSPITAL, Denmark Hill
S.E. 5

LAW COURTS Strand W.C. 2 — The Royal

wood are G.P.O. North and G.P.O. West (the mission) the Conference of the Allies was held
 Central Telegraph Office) there in February 1922

ST THOMAS'S HOSPITAL Albert Embankment
 Founded 1223. Present building (7 red
 brick houses) by Curry 1858-78. 1,000 beds.
 SMITHFIELD F12—Sir William Wallace
 was executed there (1305) in the reign of
 Edward I. and Wat Tyler was "decapitated"

raffle (incl. a station) bel. w. the tower of

See 2-1 1010 A D 1123 by Janine (see St. John's in 1870) and 1123 by Janine (see St. John's in 1870) and 1123 by Janine (see St. John's in 1870)

EXHIBITIONS & IN LONDON DURING 1930

ALFRED D. PALACE Wood Green, N.—Con-
cils Exhibition & Organized recon-
struction as National memorial to Queen
Alexandra

CRYSTAL PALACE & ETC.—The Great Pleasure
Resort artistically designed for the International
Exhibition of 1930

By the London County Council

WATFORD PARK (200 acres) W. 810 4
with Subtropical Garden (4 acres) &
Artificial lake

WILKINSON PARK (267 acres) N. 9 F 3—

WINDSOR CASTLE GARDENS TO WINDSOR CASTLE. — — —

distance not exceeding two miles
The driver may testify by means

Principal London Clubs.

39

[illegible]

Appleton, 34, Bedford St. W.C.

Architectural Press, 9, Queen Anne's Gate W.C.
 Arnold & Co, 47, Maddox St. W.C.

Jarrolds, 34, Paternoster Row, E.C.4.

Jenkins, Herbert, 3, York St., S.W. 1

Johnston, Edina Works, Edinburgh

King, P. & Co, 4, Smith St. S.W. 1

Kuoff, A. A., 37, Bedford Sq. W.C. 2

Lane, John, Vigo St., W. 1

Laurie, T. Werner, 24, Water Lane, E.C. 4.

Laurence, 26, Bedford Row, W.C. 1

PERIODICAL PAPERS AND REVIEWS

Shawyer—25 Farringdon St. E. & of
Antiquaries Journal—Oxford Press Warwick Square
E. & S.

Asiatic Review—Victoria Street & W. 1. 54

Fellys Mipango—8 Pwera (4 Minus) P 4. 10

Barbar 1x Range and Mart Ind 4000 the street
b. c. m.

Ele kwood, Magar ne-yi Patern ster How t t. 4. as 6d

Blue Magazine—4 (rev. list w. t. l. t. s.)

Erlandia—[Interok Home Ward W. a. d.]

Board of Trade Journal 1/2 cup - 1 lateral House Kings
way H (x. 6d)

Foxing Hart Rd Football-4 / re lie street E C 4 3d

But a town Paper—4 hours after it set it 4. 22

Burlington, Magistrate 104 St James Street S W

Consider if $n = 100$ strands. We can see

1. *Staphylococcus aureus* (S. aureus) is a Gram-positive, spherical bacterium that is commonly found on the skin and in the nose of humans and animals. It is a facultative anaerobe, meaning it can grow with or without oxygen. S. aureus is a major cause of skin infections, such as abscesses, boils, and impetigo. It can also cause more serious infections, such as pneumonia, sepsis, and endocarditis. S. aureus is resistant to many antibiotics, making it a difficult pathogen to treat.

Canadian Gazette Ind - no fee! email use will Email
Street F. x. 64

Little Folke—42 Farringdon Street E.C.4. 20

Local Government (the noble Lady Mary Tooley, St.

1. John Collins, 22 E. 10th Street, 1 Co. 2d

1114m Collins 30 Farrington Street, F.C. 4, and
 1114m Collins 30 Farrington Street, F.C. 4, and

London Magazine—see *Barbican Street, F.D.*

London Mercury Aug 28/1911 W.C. 25

Is it done by hand? *Yes* Is it done by machine? *No* Is it done by both? *No*

London Q. ant. str.—24, 25 & 1. Road F (a) 90

III. strated Sport ing and Dramatic News (Ind)—Interweek Excelsior (Ind)—99 Cherry Street W.C. 6J
Sid ere (Ind)—Interweek 110000 Strand W.C.

House No. 11 N. E. 24.

International Labour Review—40 M

[illegible]

14 editor—15 Donaghy Hill F C 4. m
Advertiser & Chron. 14—15 Donaghy Hill F C 4. m

Inventor's Choice: 10-7-4 Durburne Chas

Hardware Trade Journal—354 Fleet Street F.C. 4. 32.

Paper Maker—47 Cannon Street E.C. 4. 32 67

Leather Trades Review—254 Fenchurch Lane E.C. 3. 24.
Lithograph Trades Review—40 Farringdon E.C. 4. 32.
Lithographing World—27 Finsbury Square W.C. 2. 24.

Machinery—55 Clerkenwell Lane W.C. 1. 24.
Ministry Black & White—145 Queen Victoria Street E.C. 4. 32.
Nautical Trades Journal—60 Cannon Street E.C. 4. 32.
Medical Officer—35-36 Whitechapel Street F.C. 4. 32.
Medical Press & Circular—111 Whitechapel Street F.C. 4. 32.
Men's Wear—154 Whitechapel Street F.C. 4. 32.
Men's Wear Circular—111 Whitechapel Street F.C. 4. 32.
Metals & Metallurgy—35 Mark Lane E.C. 3. 24.
Metal Industry—8 Fenchurch Lane W.C. 2. 24.
Miller Times—254 Fleet Street F.C. 4. 32.
Mining Journal—151 City Street F.C. 4. 32.
Mining Magazine—254 Whitechapel Street F.C. 4. 32.
Mining World—General Office—111 Whitechapel Street F.C. 4. 32.
Money & Finance—111 Whitechapel Street F.C. 4. 32.
Motor & Roadway—111 Whitechapel Street F.C. 4. 32.
Motor & Roadway—111 Whitechapel Street F.C. 4. 32.

Printers & Bookbinders—354 Fleet Street E.C. 4. 32.
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Unlabeled Journal—Unlabeled Whitechapel Street F.C. 4. 32.

LONDON AMBULANCE SERVICES

London County Council Ambulance Stations

A
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North Western Ambulance Station, Lawn Pool,
Fleet Road, Hampstead, N.W. 3 (near Hamp-
stead Heath and Belsize Park Railway Stations).
Tel. City 7203.

Western Ambulance Station, Seagrave Road,
Fulham, S.W. 6 (near West Brompton Railway
Station). Tel. City 7204.

South Western Ambulance Station, Lan-
ford Road, Stockwell, S.W. 9 (near Clapham Road
and Clapham North Railway Stations). Tel.
City 7205.

1920, 19 414, 1925 33 169 1926 39 447
40 233 1928, 43 415

In addition to the above

Banks and Banking.

411

THE BANK OF ENGLAND FOUNDED 1694.

THE GOVERNOR DEPUTY GOVERNOR AND OTHER OFFICERS FOR THE YEAR 1929

Governor The Rt. Hon. Montagu Collet Norman B.C.

Deputy Governor Sir Ernest Moystave Harvey K.B.E.

DIRECTORS

Charles Stewart Addis,
C.M.G.
Alan Garrett Anderson,
C.B.
Basil Phillott Blackett,
C.B.E., K.C.M.G.

Kenneth Goschen
Edward Charles Grenfell M.P.
Charles Jocelyn Hambro
Col. Lionel Hymanbury C.M.G.
Sir Robert Molesworth Miles,
Bart. M.P.
Sir John Kitson

Robert Lydston Newson
Edward Robert Peacock
Hon. Alexander Shan
Sir Josiah Charles Stirling,
Bart.
Frank Cyril Tlarks
Henry Alexander Trotter
Robert Wallace,
Walter Kennedy Whitlam
Arthur Whitworth.

SEPTEMBER 4 1929

ILL DEPARTMENT

BANKING DEPARTMENT

| Notes issued | Govt. Debt | Other Securities | Gold Coins and Bullion | Proprietors' Capital | Reserve | Public Deposits | Other Deposits | Seven day and other Bills | Govt. Securities | Other Securities | Gold and Silver Coins |
|--------------|-------------|------------------|------------------------|----------------------|------------|-----------------|----------------|---------------------------|------------------|------------------|-----------------------|
| £396,255,451 | £11,015,700 | £244,141,730 | £141,059,631 | £14,553,000 | £3,720,782 | £9,095,078 | £11,135,030 | £3,861 | £75,806,851 | £31,382,721 | £30,000,000 |
| £396,255,451 | £11,015,700 | £244,141,730 | £141,059,631 | £14,553,000 | £3,720,782 | £9,095,078 | £11,135,030 | £3,861 | £75,806,851 | £31,382,721 | £30,000,000 |
| | | | | £123,850,751 | | | | | | | £123,850,751 |

of London A.M.
D.J. Clayton H.
O.B.E. C.W. Wise O.I.
Adm. do Elvid J.
Stapley W.B. Hill
Western B.ich I.
Agent F.E.

Wingham A.C. Turner
Ruston Lewis L. Moser
Newcastle

COUNTRY BRANCHES AND AGENTS.

H.H. Robert Bruce Johnston
Leeds J.D. Blacke & Co.
E.W. L. Liddale
Liverpool G. Ager & Co.
Manchester Osborn & Co.
H. Ja.kson

THE BIG FIVE

| Name | Bank and Building | Capital | Current Assets | Net Assets |
|-------------------------------|-------------------|------------|----------------|------------|
| Barclays Bank Ltd | over £1,000 | £1,000,000 | £1,000,000 | £1,000,000 |
| London & Lancashire Bank Ltd | over £1,000 | £1,000,000 | £1,000,000 | £1,000,000 |
| Midland Bank Ltd | over £1,000 | £1,000,000 | £1,000,000 | £1,000,000 |
| Nat. West. Pro. Ind. Bank Ltd | over £1,000 | £1,000,000 | £1,000,000 | £1,000,000 |
| W. & A. Bank Ltd | over £1,000 | £1,000,000 | £1,000,000 | £1,000,000 |

THE BANKERS CLEARING HOUSE

Principal Banks in the British Empire.

* Clearing Bankers, † Army Agents.

3 30 p.m. (Saturday 12 noon)

AUSTRALIAN BANK OF COMMERCE, Ltd.
George and King Streets, Sydney N.S.W.
(82 Bishopsgate E.C. 2).—Capital
£1,200,000 (£1 Shares fully paid) 1
Reserve Fund, £1,086,880 Deposits etc.
£16,568,898 Dividend 1928-29 8 p.
(185 branches and Agencies in Australia)
BALLARAT BANKING CO. LTD (1865) Lydia
St. Ballarat Victoria (London Agent
70). Capital, paid up £127,500 Reserve
and undivided Profits £77,319 Deposits
etc. £404,482 Dividend 8 p.c. p.a. plus
bonus 1 p.c. p.a.

BANCA DE BILBAO (1857) Bilbao (Spain)
111 New Broad St., E.C. 4.—Capital
1,000,000,000 Paid up Capital
500,000,000

BANCO NACIONAL ULTRAMARINO
100 Bishopsgate E.C. 2.—Capital
Escudos 24,000,000 Reserve Funds Esc. 34,000,000

BANQUE HAVAS LTD Paris
—Capital Authorised Rs. 10,000,000
—Paid up Rs. 6,000,000 (Shares of Rs. 10 each
fully paid) Reserve Fund Rs. 35,750,000
Dividends etc. Rs. 20,24,078

BANK OF AFRICA (1905) Aden
Abyssinia (Registered Office Cairo Egypt)
—Capital £1,000,000

- BANK OF BARODA, LTD.** (1908), *Mandrei*
Baroda India (London Agents 90).—
Issued and Subscribed Capital Rs. 60,00,000
Paid up Capital Rs. 30,00,000 (Shares of
Rs. 100 and Rs. 50 paid up). Reserve Fund
Rs. 23,50,000. Deposits Rs. 5,39,671,294.
Dividend, 1928, 12 p.c. (15 Branches in
India.)
- BANK OF BERMUDA LTD.** (1889), *Hamilton*
Bermuda (London Agents 164).—Capital
£15,000 (£50 shares fully paid). Reserve
Fund £50,000 (Branches at Somerset
and St. George's.)
- BANK OF T. T. BUTTERFIELD & SON LTD.**
(1858), *Bermuda*—Capital subscribed and
paid up £100,000 (£100 shares fully paid).
Reserve Fund £100,000. Deposits etc. £1,000,000.
Dividend 1928 12 p.c.
- BANK OF CANADA** (1868), *Montreal*
Canada (47 Threadneedle St. E.C. 2)—
Capital \$34,548,760.50 (\$100 Shares). Reserve
Fund \$35,548,760.50. Total Assets etc.
\$913,705,653.22. Dividend 1928 at 24 p.c.
24-25 26-27-28 12 p.c. and bonus 1 p.c.
(Over 616 Branches in North America.)
- BANK OF NEW SOUTH WALES** (1817)
Sydney N.S.W. (29 Threadneedle St. E.C. 2)—
Capital £7,500,000. Reserve Fund
£5,900,000. Deposits etc. £63,147,816.
Dividend 1927-28 12 p.c. £100 per share
(559 Branches and Agencies in Australia, N.Z., Fiji, Papua
and New Guinea.)
- BANK OF NEW ZEALAND** (1861), *Wellington*
N.Z. (1 Queen Victoria St. E.C. 4)—
Capital £6,771,108 (£500 shares fully paid).
Reserve Fund £1,121,108 (£100 shares fully paid).
Dividend 1928 12 p.c.
- BANK OF NOVA SCOTIA** (1832), *Halifax*
N.S. and Toronto Ontario Canada
(108 Old Broad St. London E.C. 2)—
Capital \$10,000,000 (\$500 Shares fully
paid). Reserve Fund and undivided
profits \$20,914,725.66. Deposits etc.
\$39,912,356.40. Dividend 1929 12 p.c.
(327 Branches.)
- BANK OF ROMANIA LTD.** (1903), *Bucharest*
Romania (123 Old Broad Street E.C. 2)—
Capital £300,000 (£6 Shares fully paid). Reserve
Fund £30,000.
- BANK OF SCOTLAND** (1695), *Bank St. Edinburgh*
(30 High Street E.C. 2)—Capital
£1,250,000 (£100 Shares fully paid). Reserve
Fund etc. £1,250,000. Deposits etc.
£3,068,385. Dividend 1928 at 12 p.c.
in October 1928 12 p.c. in April 1929. (239
Branches and Sub Branches.)
- BANK OF SPAIN** (1856), *Madrid Spain* (37
New Broad St. E.C. 2)—Capital Pesetas
150,000,000 (Shares of 1,000 Pesetas fully
paid). Reserve Fund Pesetas 30,000,000.
Deposits etc. 1,000,000,000. Dividend
1928 12 p.c. 1,000 Pesetas per share.
- BANK OF TAIWAN LTD.** (1899), *Taipei*
Formosa (40 and 41 Old Broad Street
E.C. 2)—Capital 1,000,000,000. Reserve
Fund 1,000,000,000.
- BANK OF TORONTO** (1855), *Toronto Ontario*
Canada (London Agents 164)—Capital
\$5,000,000 (Shares of \$100, fully paid).
Reserve Fund \$8,000,000. Deposits etc.
over \$105,000,000. Dividend 1927-28 12 p.c.
(198 Branches in Canada.)
- BANK OF VICTORIA LTD.** (1852), *Collins St.*
Melbourne Australia (Amalgamated with
The Commercial Banking Company of
Sydney Ltd.)
- BANQUE BELGE POUR L'ETRANGER, LTD.**
(1902), *Brussels (4 Bishopsgate St. E.C. 2)*
—Capital Frs. 200,000,000 (Shares
Fr. 500). Reserve Fund Fr. 150,000,000.
Deposits etc. Fr. 3,806,327,841. Dividend,
1927 at 10 p.c. free of tax. (7 Branches.)
- BANQUE CANADIENNE NATIONALE** *Mon-*
tréel Canada (Bank of Hochelaga and
Banque Nationale amalgamated)—Paid
up Capital and Reserve \$12,940,656.
Assets over \$150,000,000. (268 Branches
and 316 Sub Agencies.)
- BANQUE DE FRANCE** (1800), *Paris*—Paid
up Capital Fr. 125,000,000 (Fr. 1,000 shares
fully paid). Reserve Fr. 34,513,194. De-
posits etc. 24/11/1928 Fr. 5,647,300,372.
Dividend 1928 12 p.c. (660 Branches
Agencies and Auxiliary Offices.)
- BANQUE DE COMMERCE BELGE** (1900), *Paris*
Belgium (20, Lombard Avenue
E.C. 2) (34 Branches in Africa.)
- BANQUE NATIONALE DE CREDIT** (1853), *Paris*
—Capital Fr. 250,000,000. Reserve Fund
Fr. 125,000,000. Dividend 1928 12 p.c.
(563 Branches.)
- BANQUE PARISIENNE** (1910), *Paris*
France (25, Boulevard des Capucines
E.C. 2)—Capital Fr. 20,000,000 (Shares,
50 fully paid). (7 Branches.)

LIONEL BARBER (1921) LTD (1899) 411
 100 and 25, Gresham

Reserve Fund £1,000,000 Deposits, etc.
 £11,601,338 Dividend 1928 10 p.c.

Office 33, R. V.
 (see Branches)

BELFAST BANKING CO LTD (1827) (1928)
 (Affiliated to No 164)—Subscribed (Capital)
 £2,500,000 Paid up Capital £700,000
 (200,000 Shares of £12 10s £3 10s
 18d) Reserve Fund £600,000 Total
 Assets etc (31 Dec 1928) £14,872,510
 Dividend 1928 11 p.c. less tax. (85
 Branches and Sub-Branches.)

BRUNSON & CO FREDERICK J (1896), Do land
 House 14 Regent St. W. 1
 PRYCE ROBERT & CO LTD 24 Old
 Broad Street E.C. 2

BLANDY BROS & CO LTD, Madras
 BLANDY BROTHERS & CO LTD (1885)
 Madras Blandy Bros. & Co (London),
 Ltd (London) House 3 New London St
 E.C. 3

BLANDY BROTHERS & CO (1886) (Grand
 Canary), LTD Los Palmas Blandy Bros.
 & Co (London) Ltd (London) House 3
 New London St. E.C. 3.

B W HLYDFEINSTEIN & CO (1888) 54 55 &
 56 Threadneedle St E.C. 2.—Capital
 £700,000 Loans Deposits etc
 £12,964,492

POWELL BRIGHT WILLIAM P & CO (1895) 24
 Birel n Lane E.C. 3.

1 BRITISH BANK FOR FOREIGN TRADE
 (1912), 21 Angel Court E.C. 2.—Subscribed
 Capital £200,000 10,750 Shares of £2
 each (11,750) Deposits and Current
 Accounts £1,335,144.

9 BRITISH BANK OF AFRICA LTD
 (1863) 227 Old Broad Street E.C. 2.—
 Capital £2,000,000 (£200,000 paid)

—Capital authorized & u
 £1,000,000 Reserve (31/12/1928) £225,000
 (31/12/1928) Investment Reserve £51,700
 BRITISH LLOYD BANK (1745) 38 St Andrew
 Square E.C. 4. Affiliated to Barclay Bank Ltd.
 P.C. 2. Capital £1,250,000 fully paid Reserve
 Funds £250,000 Deposits etc
 £27,236,608 Dividend 1928-29 16 p.c.
 (197 Branches and Sub Branches)

BRITISH MUTUAL BANKING CO LTD (1857)
 Ludgate Circus E.C. 4.—Capital £300,000
 (£5 Shares £2 paid) Reserve Fund
 £63,000 Reserve against contingencies
 £20,000 Deposits etc £723,598 Divi-
 dend 1927-28 12 p.c.

BRITISH ORIENTAL BANK LTD (1894)
 Smyrna (1 Walbrook E.C. 4)—Capital
 £26,000 (£2 Shares fully paid) Credits
 to P/L account £3,114 Deposits etc.
 £228 (Figures of Dec 1928)

BRITISH OVERSEAS BANK LTD (1909) 33
 Gracechurch Street E.C. 3. (21
 £5,000,000 authorized £2,000,000 paid
 in full 200,000 A Shares of £5, 200,000
 B Shares of £5 Deposits, £4,588,980
 Dividend 6 p.c. p.a. on A Shares, 6 p.c. p.a.
 on B Shares.

45 BROWN SHIPLEY & CO (1810) Founders
 Court Lothbury E.C. 2 & 123 Pall Mall
 S.W. 1

BUNGE & COMPANY, LIMITED Punge House
 St Mary Axe E.C. 3

46A CANADA PERMANENT MORTGAGE AND
 SAVINGS (1855) Toronto Ontario Canada
 (London Agents 164).—Capital, Paid up
 £7,000,000 (£100 Shares 1 by p.a.
 Reserve Fund \$8,000,000 Deposits
 \$14,465,550 66 Dividend 1929 12 p.c.
 Branches in Canada.)

47 CANADIAN BANK OF COMMERCE (1867)
 Toronto Ontario Canada (1 Lombard St.
 E.C. 2).—Capital £6,164,384 (\$100 Shares
 fully paid) Reserve Fund £6,164,384
 Total Assets, 30/11/1928 £153,069,970
 Dividend 1928 12 p.c. + 1 p.c. (75
 Branches throughout the World)

CATY & COY LTD (1912) Royal Exchange
 Buildings 5 Basinghall Street E.C. 2

CENTRAL BANK OF INDIA LTD (1921) 20
 Bay (10 India Agents 164).—Capital
 Rs 1,63,00,000 (Shares of Rs 50 Rs
 paid) Reserve Fund Rs 75,00,000
 Deposits etc 31/12/1928 Rs 14,44,00,000
 Dividend 31/12/1928 6 p.c. (20 Branches
 in India)

53 CHARTERED BANK OF INDIA AUSTRAL
 AND CHINA (1853), 38 Basinghall Street
 E.C. 2.—Capital £3,000,000 (£5 Shares fully
 paid) Reserve Fund £4,000,000 Deposits
 etc. £44,004,910 Dividend 1928 10 1/2 p.c.
 (47 Branches and Agencies)

CHILD & CO (1899) Amalajmatul
 GLYNN MILLS & CO
 CHINESE COMMERCIAL BANK LTD (1909)
 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000

Issued and Subscribed \$1,000,000.00
 Reserve \$1,200,000.00 Deposits, etc.
 \$3,726,954.09 Dividend 22 p.c. and Bonns 75%
 3 p.c.

(£750,000 A shares of £4 each £2
 paid) 500,000 P shares of £2 each
 fully paid) Reserve fund £2,750,000
 Deposits, etc. £3,381,403 Dividend
 1927-28 16 p.c. on A shares 10 p.c. on B
 shares (254 Branches.)

COMMERCIAL BANK OF SPANISH AMERICA
 LTD (1904) See ANGLO SOUTH AMERICAN
 BANK LTD

(Capital £100,000)
 COMMONWEALTH BANK OF AUSTRALIA
 (1922)—5 Macquarie St. 36-41 New Bridge
 St. E.C. 3. A share in House of Commons
 W.C. 2.—Owned and guaranteed by the
 Government of the Commonwealth

Dividend 1928 France 80

1928 100,000 shares of £1 each 200,000 shares of
 £2 each Registered Shares, Fr 225
 paid up and 50,000 shares fully paid to
 31 Dec 1928 Reserve fund Fr 70,000,000
 Deposits etc. Fr 2,215,655,248.70

77 CREDIT LYONNAIS (1863), Palais du Com-
 merce, Lyon 4 France (40 Lombard St.
 E.C. 3) West End Office 25 27 Charles
 St. Maymarket W. 2.—Capital, France
 255,000,000 (41,667 shares Fr 500, fully paid)
 Reserve fund Fr 227,250,000 Deposits
 31/12/1928 Fr 7,322,073,381

174 CREDITO ITALIANO (1870) Genova and Milan
 Italy (21 1/2 Exchange Avenue E.C. 3)—
 Capital Lire 354,777,700 (41,667 shares Lire 500
 fully paid) Reserve fund Lire 230,000,000
 Deposits, etc. Lire 3,236,985,032.90 Divi-
 dend 1928 8 p.c. (70 Branches)

ROGER LUTHERFORD & CO (1839) 28
 Clements Lane Lombard St. E.C. 4

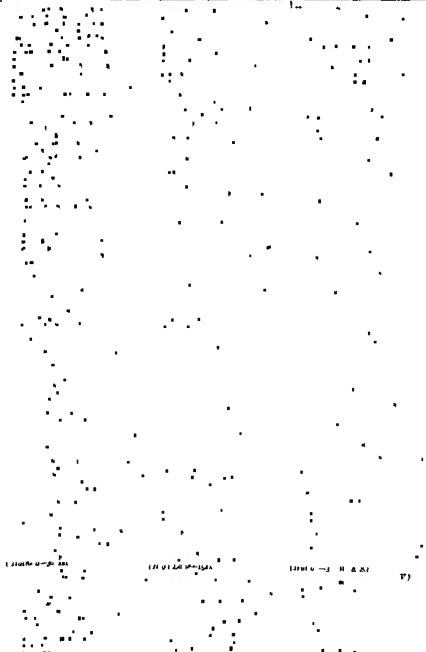
DANIELI CAZENOVE & Co, 50 Cornhill
 E.C. 3

DISTRICT BANK LTD (1829), Spring Gar-
 dens Manchester (75 Cornhill E.C. 3)—

EASTERN BANK, LTD (1909) Crosby
 Square E.C. 3—Capital £2,000,000 (£10
 shares £200 each) Reserve fund
 £150,000 Deposits, etc., £6,170,098
 Dividend 1927 9% a share—less Income
 Tax, (28 Branches in India and East.)

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| 1773 | | (£10 Shares, £2 paid); Capital, paid up £700 000, Reserve Fund £800 000 Deposits etc., £14,153 23s, Dividend 1928-29 17½ p c A shares, 8½ p c B shares (no Branches and Agencies in Northern Ireland; 66 Branches and Agencies in R State) |
| | | OTTOMAN BANK (1863) Constantinople Turkey (16, Throgmorton St, E.C. 4) Capital £10 000 000 (£50 Shares £1 paid, Reserve Fund, £1,250 000, Deposits etc., Dec 31, 1928, £16,493 80s, Dividend 5s per Share (paid July, 1929) 11 Branches in Turkey) |
| | | THE P & O BANKING CORPORATION LTD (1847) (100 Shares, £10 paid up, £500 000 Capital, £10 000 000 (£50 Shares £1 paid, Reserve Fund, £1,250 000, Deposits etc., Dec 31, 1928, £16,493 80s, Dividend 5s per Share (paid July, 1929) 11 Branches in Turkey) |
| | | 1774 NATIONAL BANK OF SOUTH AFRICA LTD (1892), Pretoria (Cirens Place London Wall E.C. 4 111 St Martin's Lane) |
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- 1 ROYAL BANK OF SCOTLAND (1797)
101 Andrew Square Ednburgh (3)
Bishopsgate E.C. 2—Capital £2,500,000
(£100 stock, fully paid) Reserve Fund
£1,205,287 Deposits, Oct. 28 £44,674,151
Dividend 1927-28 27 p.c. (235 Branches
and Sub-Branches)
- 6 A PUFFER & SONS LTD (1871) 39 Lombard
Street, E.C. 3
PROVINCIAL AND ENGLISH BANK
profd (4 Mortgage E.C. 2) (1911) Petro
- 5 PROVINCIAL BANK FOR IRELAND TRADE 59-60
Statenburgh Street E.C. 3
J HENRY SCHUPPARD & Co (1804) 145,
Leadenhall St E.C. 3
- 110 UNION BANK OF MANCHESTER LTD (1836)
York St. Manchester (London Agents)
Agd. to Barcelona Bank Ltd—
Capital £1,500,000 (£5 Shares £120
12d) Reserve Funds £675,000 Deposits
etc £18,069,359 Dividend 1928 16 p.c.
- UNION BANK OF SCOTLAND LTD (1830)
110, St. Vincent St. Glasgow (2) 54
George St. Ednburgh (52 Cornhill E.C. 3)
—Capital £5,000,000 (£5 Shares £1 paid)
Reserve Fund £1,500,000 Deposits etc
£27,300,000 Dividend 1928-29 18 p.c.
- UNION DISCOUNT COMPANY OF LONDON
LTD (1885) 39 Cornhill E.C. 3—Capital
Issued £2,500,000 (£5 Shares £120
paid) Reserve Fund £1,750,000 Deposits
etc £45,858,100 Dividend 15 p.c. and
Bonus 5 p.c. tax free.
- WESTMINSTER BANK LTD (1836) Head
Office 41, Lothbury E.C. 2 Stock
Transfer Office 9 Old Broad St. E.C. 4
Trusts Department 53 Threadneedle
St. E.C. 2 Lombard Street Office at Lombard
Street E.C. 3 Birthplace of the
Office 4 Bartholomew Lane E.C. 2 Head
Office 1 St. James's Sq. W. 1
Foreign Branch Office 82 Cornhill E.C. 3
Capital £33,000,000 (7,500,000 Shares of
- SOUTH AFRICAN RESERVE BANK (1920)
Pretoria Transvaal (London Agents)
Capital fully paid £1,000,000 Reserve
Fund £500,408 Deposits £8,451,383
Dividend 1928 29 10 p.c. (3 Branches)
- 3 THE STANDARD BANK OF SOUTH AFRICA
LTD (1862) 10 Clements Lane E.C. 4 77
King William St E.C. 4 63, London Wall
E.C. 4 and 9 Northumberland
Walk 2, Tottenham and Su-
tall £10,000,000 Paid
£2,000,000 Reserve Fund
Deposits etc £51,830,14
1928 29 27 p.c. (360 Branches)
GEORGE REUFUAT & CO (11
Ceylon (Indian Agents 30)
- 041 JOHN STUART & CO LTD
Chester (London Agents)
£40,000 Issued £32,700
- 042
- LUKE THOMAS & CO LTD 138 Leaden-
hall St. E.C. 3 at Adey
J C M THOMAS & CO LTD (1844) 13 14
Aldgate E.C. 2
- TURNBULL AND BOWENHILL (1871) 1 Laletta
Malta (London Agents 123)
- 06 LUTHER BANK LTD (1876) Waring Street
Leeds (Agd. to London)
£3,000,000 (£15 Shares £4 paid)
- WILLIAMS DEACONS BANK LTD (1836)
Head Office Mosley St. Manchester (20
Fleetham Lane W. 13—Issued Capital
£8,225,000 Paid up Capital £1,875,000
Reserve Fund £1,350,000 Deposits
31/12/1928 £32,222,395 Dividend 1928
A Shares 13 1/4 p.c. B Shares 12 1/2 p.c.
(200 Branches and Sub-Branches)
- WOOB & CO (1839) 53 Cornhill E.C. 3
- YOKOHAMA SPECIE BANK LTD (1880)
Yokohama Japan (Y. Bishopsgate E.C. 2)
—Capital £1,200,000 (£100 Shares
fully paid) Reserve Fund £1,105,500,000
Deposits etc 31/12/28 £1,510,000
Dividend 1928 29 20 p.c. (44 Branches)
- 227 YORKSHIRE PENNY BANK LTD
1 Infirmary St. Leeds (27 p.c.)
£1 C. 1—Capital £1,250,000 (£5
Shares fully paid) Reserve Fund £
Deposits etc £28,731,559 (148
754 Branches)



H. Neal—No. 123 164 175 —

West Melton—164 (Tn. & C.)

W. Neal—No. 123 164 175 182

Banks in Northern Ireland.

The numbers represent the names of Banks in the Alphabetical List on pages 412-419
(H O) signifies the Head Office an asterisk denotes Far and Market Days

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| Alphington—278 (F) | Cashmere—211 3a, 215, 206 | Highgate—211 (M & Th) 3a, |
| Bank of Ireland—278 (F) & 279 (Th & F) | Crossbar—211 278 (F) 206 (H) | 278, 206. |
| Bank of Ireland—278 (F) & 279 (Th & F) | | |
| Bank of Ireland—278 (F) & 279 (Th & F) | | |
| Bank of Ireland—278 (F) & 279 (Th & F) | | |
| Bank of Ireland—278 (F) & 279 (Th & F) | | |
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| Bank of Ireland—278 (F) & 279 (Th & F) | | |
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| Bank of Ireland—278 (F) & 279 (Th & F) | | |
| Bank of Ireland—278 (F) & 279 (Th & F) | | |

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| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |
| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |
| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |
| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |
| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |
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| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |

Banks in the Irish Free State.

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| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |
| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |
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| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |
| Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) | Bank of Ireland—278 (F) & 279 (Th & F) |

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BRITISH AND OTHER BANKS

A Banking Comparison of the British Empire and United States of America according

| BANK HOLIDAYS | | THE BANK RATE | | | | | |
|------------------------------------|------|-------------------------------|------|------|------|------|------|
| ENGLISH AND WAIFS.—Bank of England | | AVERAGE Minimum Rate per Cent | | | | | |
| Month. | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 |
| Jan. | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| Feb. | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| Mar. | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| Apr. | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| May | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| June | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| July | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| Aug. | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| Sept. | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| Oct. | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| Nov. | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |
| Dec. | 5 | 5 | 5 | 5 | 4 5 | 4 | 4 |

LIFE ASSURANCE

The following table shows the rates of interest on the various classes of life insurance policies, as determined by the Board of Directors of the Life Insurance Company of New York, for the year 1930.

FIRE INSURANCE RATES

Most large fire offices belong to the class of "first class" fire insurance companies, and the rates of interest on the various classes of fire insurance policies, as determined by the Board of Directors of the Life Insurance Company of New York, for the year 1930.

PRINCIPAL LIFE ASSURANCE COMPANIES

| Year ended | Class | Name of Office | ANNUAL ACCOUNTS FOR THE YEAR ENDING 1906 | | | Rate of Interest earned | VALUATION | |
|------------|-------|-----------------------------|--|---------------------|----------------------------------|-------------------------|--------------------------|------------------|
| | | | Life Funds | Life Premium Income | 1/10 of Excess to Interpolations | | Mortality Table | Interest Assumed |
| | | | £ | £ | | £ s. d. | | £ s. d. |
| 1893 | P O | Abolition & General | 2,580,909 | 298,945 | 20.18 | 5 9 3 | Om | 3 0 0 |
| 1904 | P | African Life | 3,900,766 | 710,184 | 32.09 | 5 16 0 | Om(3) | 4 0 0 |
| 1894 | P O | Albion | 21,569,720 | 1,525,412 | 9.91 | 5 3 7 | Om | 3 0 0 |
| 1898 | P O | Atlas | 6,212,219 | 772,286 | 23.77 | 6 1 0 | Om(3) | 3 0 3 |
| 1899 | M | Australian Mutual (C) | 64,110,242 | 5,264,885 | 12.43 | 5 12 2(4) | Hm & Carlisle & Gov 1884 | 3 0 0 |
| 1896 | P O | Britannic (Ordinary) | 6,198,120 | 993,740 | 23.76 | 5 12 2 | Om | 3 0 0 |
| 1894 | P O | British Equitable | 1,663,190 | 155,179 | 18.97 | 4 17 0 | Om | 3 0 0 |
| 1904 | P O | British General | 655,530 | 113,978 | 12.26 | 5 9 10 | Om | 3 0 0 |
| 1902 | P I | British Widows (Ord.) | 118,256 | 22,391 | 20.60 | 4 15 6(4) | Om & Hm | 3 10 0 |
| 1895 | P O | Caledonian | 6,170,273 | 558,836 | 14.39 | 6 1 8 | Om & Carlisle | 3 0 0 |
| 1897 | P | Canada Life (C) | 30,968,732 | 5,407,777 | 45.47 | 6 0 6 | Om(4) | 3 0 3 |
| 1892 | P | Clerical Medical & Gen. | 9,791,105 | 772,877 | 15.89 | 5 8 11 | Om(3) | 2 10 0 |
| 1893 | M O | Colonial Mutual (C) | 9,398,529 | 1,175,129 | 23.22 | 5 4 6(4) | Om | 3 10 0 |
| 1891 | P O | Commercial Union | 16,094,318 | 1,567,862 | 13.52 | 5 7 8 | Om | 3 0 0 |
| 1891 | P | Confederation (C) | 12,942,091 | 2,501,364 | 26.71 | 5 14 4 | Om(3) | 3 0 3 |
| 1897 | P O | Co-operative (Ord.) | 4,052,621 | 1,249,722 | 12.74 | 4 17 5(4) | Hm & Om | 3 10 0 |
| 1897 | P O | Eagle Star & E. Dom. | 15,381,648 | 960,738 | 15.01 | 5 9 3 | Om | 3 0 3 |
| 1897 | P O | Ecclesiastical | 174,412 | 15,959 | 4.71 | | Om | |
| 1901 | P O | Edinburgh | 52,431 | 4,557 | 6.23 | 4 17 11 | Om | 3 0 0 |
| 1892 | M | Equitable (C) | 6,468,546 | 447,641 | 7.48 | 5 8 6 | Om | 2 10 0 |
| 1894 | P | Equity & Law | 8,052,191 | 1,074,094 | 12.96 | 5 5 10(4) | Om & Om(3) | 3 0 0 |
| 1892 | M | Friends Provident & Century | 5,748,758 | 591,405 | 20.70 | 5 14 3 | Om & Om(3) | 3 0 0 |
| 1897 | P | General | 2,161,879 | 416,392 | 27.87 | 4 19 10 | Om Hm & Om | 3 0 0 |
| 1898 | P | Great Am. | 7,457,320 | 857,056 | 25.00 | 4 12 8 | Hm | 3 10 0 |
| 1891 | P O | Guardian | 5,916,862 | 550,778 | 13.51 | 5 14 0 | Om Carl | 3 0 0 |
| 1903 | P O | Hearts of Oak (Ord.) | 68,294 | 12,410 | 18.57 | 4 11 7(4) | Om | 4 0 0 |
| 1896 | P O | Law Union & Rock | 10,765,159 | 809,670 | 16.70 | 5 10 6 | Om | 3 0 0 |
| 1896 | P O | Legal & General | 18,559,696 | 2,792,900 | 20.44 | 5 10 10 | Om | 3 0 0 |
| 1896 | P | " | " | " | 5.6 | 5 6 8 | Om | 3 0 0 |
| 1896 | P O | " | " | " | 11.07 | 5 4 9 | Om & Om(3) | 2 15 0 |
| 1891 | P | " | " | " | 23.81 | 4 19 6 | Edg No 8 | 3 0 0 |
| 1892 | P O | " | " | " | 20.14 | 4 15 11 | Om | 3 10 0 |
| 1899 | P I | " | " | " | 25.08 | 5 8 3(4) | Om | 3 0 0 |
| 1890 | P O | " | " | " | 14.42 | 5 9 8 | Om | 3 0 0 |
| 1906 | P O | " | " | " | 46.04 | 4 15 1 | Hm | 4 10 0 |
| 1896 | M | " | " | " | 5.59 | 5 8 6 | Om(3) | 3 0 2 |
| 1897 | P | Manufacturers Life (C) | 17,249,146 | 3,963,883 | 27.30 | 6 8 5 | Hm Amerl can & c | 3 0 0 |
| 1892 | M | Marine & General | 3,315,508 | 279,737 | 18.32 | 5 19 9 | Om | 3 0 0 |
| 1906 | P O | Motor Union | 280,586 | 40,509 | 15.14 | 5 4 11 | Om | 3 0 0 |
| 1896 | P | Mutual L. & Citizens (C) | 14,001,402 | 1,173,516 | 22.46 | 5 16 5 | Hm & a(f) & (m) 1900-20 | 3 0 0 |
| 1900 | M | Nat Farmers Un Mut | 2,890 | 52 | 42.31 | | | |
| 1890 | M | " | " | " | 15.50 | 5 10 11 | | 3 0 0 |
| 1899 | M | " | " | " | 23.96 | 5 14 2(4) | Hm | 3 10 0 |
| 1895 | M | " | " | " | 4.54 | 5 12 8 | Om | 3 0 0 |
| 1893 | P O | " | " | " | 12.14 | 5 7 0 | Om | 3 0 0 |
| 1896 | P O | " | " | " | 11.94 | 5 9 4 | Om | 2 10 0 |
| 1898 | M | " | " | " | 15.18 | 5 0 9(4) | Om | 2 10 0 |
| " | " | " | " | " | 11.21 | 5 10 10 | Hm | 3 0 0 |
| " | " | " | " | " | 12.94 | 5 11 6 | Om | 3 0 0 |
| " | " | " | " | " | 14.98 | 4 16 6(3) | Hm | 3 10 0 |
| " | " | " | " | " | 13.70 | 5 4 0 | Om | 2 10 0 |
| " | " | " | " | " | 15.64 | 5 9 4 | Om | 3 0 0 |
| " | " | " | " | " | 11.43 | 4 16 11(3) | Om | 3 0 0 |
| 1894 | P I | Refuge (Ordinary) | 27,677,034 | 3,702,345 | 16.43 | 4 15 8(4) | Om | 3 0 0 |
| 1891 | P O | Royal | 20,825,826 | 1,815,301 | 22.63 | 5 3 9 | Om & Om(3) | 3 0 0 |

For Notes see next page.

PRINCIPAL LIFE ASSURANCE COMPANIES—continued

| Established | Class | Name of Office | Annual Accounts Published in 1909 | | Rate of | Valuation |
|-------------|-------|------------------------|-----------------------------------|------------|---------|-------------------------|
| 1730 | P O | Royal Exchange | | | | |
| 1861 | P I | Royal London (Ord.) | | | | |
| 1867 | P I | Salut on Armv | 1 639 367 | 241 112 | 14 97 | 4 6 11(7) Hm 3 0 |
| 1826 | M | Scottish Annuity | 9 853 396 | 714 199 | 13 88 | 5 8 3 O(2)* 3 0 |
| 1831 | M | Scottish Equitable | 8 958 409 | 748 140 | 23 26 | 5 7 3 O(2) with 3 0 |
| 1877 | P O | Scottish Insurance | 919 113 | 76 812 | 17 72 | 5 3 8 O(2) & 3 0 |
| 1881 | P O | Scottish Life | 5 575 934 | 593 212 | 15 46 | 5 13 10 O(2) 3 0 |
| 1837 | M | | | | 16 42 | 5 7 8 O(2) 3 0 |
| 1883 | P | | | | 14 83 | 5 12 5 O(2) 3 0 |
| 1824 | P O | | | | 16 92 | 5 3 7 O(2) 3 0 |
| 1815 | M | | | | 17 94 | 5 7 4 O(2)* 3 0 |
| 1891 | P | | | | 21 65 | 5 10 6 O(2) 3 0 |
| 1825 | P | Star Line | 18 375 394 | 1 166 855 | 19 05 | 5 0 8(7) O(2) with 3 10 |
| 1810 | P | Sun Life | 37 195 588 | 7 519 723 | 20 22 | 5 2 3 O(2) net 3 0 |
| 1865 | P | Sun Life of Canada (C) | 96 067 935 | 16 824 744 | 28 99 | 6 11 7(7) O(2) 3 0 |
| 1840 | M | United Kingdom Prov | 17 228 706 | 1 376 086 | 13 53 | 5 1 2 O(2) & O(2) 3 10 |
| 1825 | P | University Life* | 1 299 690 | 52 944 | 5 3 6 | O(2) 3 0 |
| 1841 | M I | Wesleyan & Gen (Ord.) | 4 055 782 | 547 331 | 17 43 | 5 2 9 O(2) 3 0 |
| 1824 | I O | Yorkshire | 6 192 286 | 606 249 | 13 93 | 5 9 6 O(2) & O(2) 3 10 |

INDUSTRIAL COMPANIES.

| | | | | | | |
|------|---|----------------------|-------------|------------|-------|-------------------------|
| 1866 | P | Britannic | 9 371 162 | 2 853 396 | 25 94 | 5 10 6 {Fl & No. 8} 3 0 |
| 1843 | M | Liverpool & Friendly | 19 076 801 | 4 338 420 | 38 64 | 4 19 6 {Fl & No. 8} 3 0 |
| 1869 | P | London & Manchester | 4 512 310 | 1 471 448 | 41 94 | 5 7 2(7) Eng. No. 8 3 0 |
| 1864 | P | Prudential | 24 236 925 | 6 490 694 | 34 11 | 5 4 0 Eng. No. 8 3 10 |
| 1848 | P | Prudential | 113 108 058 | 17 148 456 | 24 89 | 5 7 7(7) Eng. No. 8 3 0 |
| 1864 | P | Prudential | 13 222 558 | 4 632 776 | 37 26 | 5 3 2(7) Eng. No. 8 3 0 |
| 1892 | M | Royal Liver Friendly | 12 322 423 | 2 989 118 | 38 64 | 5 2 9 {Fl & No. 8} 3 0 |
| 1861 | P | Royal London | 14 110 370 | 3 713 086 | 42 83 | 4 5 6 {Fl & No. 8} 3 0 |

* Natl Farmers Union Mutual Life Insurance Co. established December 1908.
 * Natl Mt of America. Year ending Sept 30 1908.
 * Natl Natl Provident. This figure includes a valuation of 100.
 * Norwich & London Life. Includes figures of acquired Scottish Imperial Insurance.

* Sun Life. Interest assumed for purposes of year end.
 * University Life. Period April 30 1908 Dec 31 1908.
 * Wesleyan & General. With profit business. With profit business.
 * Yorkshire. With profit business. With profit business.

ANNUAL PREMIUMS FOR WHOLE LIFE ASSURANCE.

Life assurance may be effected either with or without participation in profits. If without participation both sum assured and premium remain unchanged. If with participation a further premium is charged and bonuses can

be effected on this system in companies which can point to good and consistent bonus records and whose valuation reserves are particularly strong.

The ages applicable to the life and endowment assurance (but not the annuity) are as hereafter given are next birthday unless otherwise stated.

AVERAGE ANNUAL PREMIUMS FOR WHOLE LIFE ASSURANCE OF £100

| Age at entry | With Profits. | | | Without Profits. | | | Dis. counted Bonus. | | | Age at Entry | With Profits. | | | Without Profits. | | | Dis. counted Bonus. | | | | | | | | | |
|--------------|---------------|----|----|------------------|----|----|---------------------|----|----|--------------|---------------|----|----|------------------|----|----|---------------------|----|----|----|----|----|----|----|----|----|
| | £ | s. | d. | £ | s. | d. | £ | s. | d. | | £ | s. | d. | £ | s. | d. | £ | s. | d. | | | | | | | |
| 21 | 1 | 19 | 4 | 1 | 11 | 2 | 1 | 12 | 8 | 31 | 1 | 10 | 0 | 1 | 1 | 0 | 8 | 41 | 3 | 6 | 11 | 8 | 15 | 4 | 8 | 13 |
| 22 | 1 | 0 | 1 | 1 | 11 | 10 | 1 | 12 | 9 | 32 | 1 | 11 | 3 | 1 | 4 | 1 | 3 | 42 | 3 | 8 | 10 | 2 | 17 | 3 | 2 | 15 |
| 23 | 1 | 1 | 1 | 1 | 12 | 7 | 1 | 13 | 4 | 33 | 1 | 12 | 8 | 2 | 7 | 2 | 4 | 43 | 3 | 11 | 2 | 18 | 4 | 8 | 17 | |
| 24 | 1 | 2 | 1 | 1 | 13 | 5 | 1 | 14 | 0 | 34 | 1 | 14 | 2 | 3 | 11 | 2 | 3 | 44 | 3 | 13 | 6 | 3 | 0 | 7 | 2 | 19 |
| 25 | 1 | 3 | 1 | 1 | 14 | 3 | 1 | 14 | 9 | 35 | 1 | 15 | 9 | 5 | 5 | 2 | 4 | 45 | 3 | 16 | 0 | 3 | 4 | 0 | 3 | 2 |
| 26 | 1 | 4 | 1 | 1 | 15 | 2 | 1 | 15 | 5 | 36 | 1 | 17 | 3 | 6 | 11 | 2 | 6 | 46 | 3 | 18 | 8 | 3 | 6 | 7 | 3 | 4 |
| 27 | 1 | 5 | 1 | 1 | 16 | 1 | 1 | 16 | 3 | 37 | 1 | 18 | 11 | 2 | 8 | 6 | 7 | 47 | 4 | 4 | 6 | 3 | 12 | 1 | 3 | 9 |
| 28 | 1 | 6 | 4 | 1 | 17 | 1 | 1 | 17 | 3 | 38 | 1 | 20 | 8 | 2 | 10 | 1 | 9 | 48 | 4 | 11 | 0 | 3 | 17 | 10 | 3 | 15 |
| 29 | 1 | 7 | 6 | 1 | 18 | 1 | 1 | 18 | 2 | 39 | 1 | 22 | 8 | 2 | 11 | 9 | 10 | 50 | 5 | 11 | 9 | 4 | 16 | 6 | 4 | 13 |
| 30 | 1 | 8 | 9 | 1 | 19 | 1 | 1 | 19 | 2 | 40 | 1 | 24 | 8 | 2 | 13 | 6 | 12 | 51 | 6 | 19 | 8 | 6 | 1 | 10 | 5 | 16 |

ANNUAL PREMIUMS FOR ASSURANCE OF £100 PAYABLE AT DEATH, WITH PROFITS

| NAME OF OFFICE | Age 21 | | | Age 25 | | | Age 30 | | | Age 35 | | | Age 40 | | | Age 45 | | | Age 50 | | | Age 55 | | | Age 60 | | |
|----------------------------|--------|----|----|--------|----|----|--------|----|----|--------|----|---|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|---|----|
| | £ | s | d | £ | s | d | £ | s | d | £ | s | d | £ | s | d | £ | s | d | £ | s | d | £ | s | d | £ | s | d |
| †Allotainers & Gen | 1 | 13 | 9 | 1 | 16 | 8 | 2 | 0 | 11 | 2 | 7 | 3 | 2 | 15 | 10 | 3 | 7 | 4 | 4 | 2 | 3 | 1 | 5 | 8 | 11 | 6 | 11 |
| †African Life | 1 | 18 | 4 | 2 | 8 | 7 | 2 | 9 | 0 | 17 | 1 | 3 | 7 | 3 | 4 | 0 | 8 | 4 | 16 | 7 | 5 | 17 | 10 | 7 | 5 | | |
| Allianco | 2 | 0 | 4 | 2 | 8 | 3 | 2 | 9 | 1 | 16 | 2 | 3 | 5 | 1 | 3 | 16 | 5 | 4 | 10 | 10 | 5 | 9 | 5 | 6 | 16 | | |
| Atlas | 1 | 18 | 7 | 2 | 8 | 5 | 2 | 8 | 1 | 15 | 1 | 3 | 3 | 7 | 3 | 14 | 6 | 4 | 8 | 4 | 5 | 5 | 11 | 6 | 11 | | |
| Australian Mutual | 1 | 18 | 5 | 2 | 8 | 6 | 2 | 8 | 8 | 15 | 4 | 3 | 4 | 5 | 3 | 16 | 0 | 4 | 9 | 10 | 5 | 12 | 2 | 7 | 1 | | |
| Britannic | 1 | 18 | 3 | 2 | 2 | 1 | 2 | 7 | 9 | 15 | 0 | 3 | 4 | 0 | 3 | 15 | 7 | 4 | 11 | 1 | 3 | 11 | 11 | 6 | 19 | | |
| British Equitable | 1 | 18 | 10 | 2 | 2 | 9 | 2 | 8 | 8 | 15 | 11 | 3 | 4 | 11 | 3 | 16 | 7 | 4 | 11 | 9 | 5 | 12 | 0 | 6 | 10 | | |
| British General | 2 | 0 | 4 | 2 | 3 | 11 | 2 | 9 | 5 | 16 | 2 | 3 | 4 | 10 | 3 | 15 | 8 | 4 | 10 | 7 | 5 | 10 | 4 | 6 | 18 | | |
| Caledonian | 1 | 19 | 4 | 2 | 8 | 11 | 2 | 8 | 5 | 15 | 4 | 3 | 4 | 6 | 3 | 15 | 11 | 4 | 10 | 7 | 5 | 9 | 2 | 6 | 13 | | |
| Canada Life | 1 | 18 | 9 | 2 | 8 | 6 | 2 | 8 | 5 | 15 | 10 | 3 | 5 | 4 | 3 | 17 | 10 | 4 | 14 | 2 | 5 | 15 | 11 | 7 | 5 | | |
| Clerical Medical & General | 1 | 18 | 8 | 2 | 2 | 1 | 2 | 7 | 6 | 15 | 3 | 3 | 5 | 2 | 3 | 18 | 1 | 4 | 14 | 10 | 5 | 16 | 11 | 7 | 5 | | |
| Colonial Mutual | 1 | 18 | 5 | 2 | 2 | 7 | 2 | 8 | 9 | 16 | 0 | 3 | 5 | 1 | 3 | 15 | 11 | 4 | 9 | 10 | 5 | 11 | 11 | 7 | 1 | | |
| Commercial Union | 1 | 17 | 8 | 2 | 0 | 8 | 2 | 6 | 3 | 13 | 9 | 1 | 3 | 3 | 3 | 16 | 4 | 4 | 13 | 2 | 5 | 15 | 6 | 7 | 8 | | |
| †Confederation | 1 | 18 | 10 | 2 | 2 | 7 | 2 | 8 | 6 | 15 | 11 | 3 | 5 | 2 | 3 | 17 | 8 | 4 | 14 | 1 | 5 | 16 | 2 | 7 | 6 | | |
| †Co-operative Ins | 1 | 18 | 1 | 2 | 1 | 8 | 2 | 7 | 4 | 14 | 4 | 3 | 1 | 3 | 14 | 9 | 4 | 10 | 1 | 5 | 10 | 7 | 6 | 18 | | | |
| †Eagle, Star & B.D. | 1 | 18 | 3 | 2 | 2 | 4 | 2 | 8 | 1 | 15 | 1 | 3 | 10 | 3 | 15 | 0 | 4 | 9 | 5 | 5 | 7 | 10 | 6 | 12 | | | |
| Ecclesiastical | 1 | 18 | 3 | 2 | 1 | 7 | 2 | 6 | 10 | 13 | 4 | 3 | 1 | 7 | 3 | 12 | 0 | 4 | 5 | 9 | 5 | 3 | 6 | 6 | | | |
| †Economic | 1 | 19 | 2 | 2 | 2 | 6 | 2 | 8 | 5 | 15 | 9 | 3 | 4 | 9 | 3 | 16 | 1 | 4 | 10 | 9 | 5 | 10 | 2 | 6 | 16 | | |
| †Equitable | 2 | 4 | 0 | 2 | 8 | 0 | 2 | 14 | 0 | 3 | 0 | 3 | 8 | 0 | 3 | 18 | 0 | 4 | 12 | 0 | 5 | 8 | 0 | 6 | 4 | | |
| Equity and Law | 2 | 0 | 7 | 2 | 3 | 3 | 2 | 8 | 10 | 15 | 10 | 1 | 4 | 6 | 3 | 15 | 7 | 4 | 10 | 9 | 5 | 12 | 6 | 7 | 2 | | |
| †Friends Provident | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| & Century | 1 | 19 | 0 | 2 | 2 | 6 | 2 | 8 | 0 | 15 | 8 | 3 | 4 | 3 | 3 | 15 | 2 | 4 | 9 | 9 | 5 | 9 | 4 | 6 | 16 | | |
| †General Life | 2 | 0 | 2 | 2 | 3 | 8 | 2 | 9 | 2 | 16 | 1 | 3 | 4 | 11 | 3 | 16 | 5 | 4 | 11 | 3 | 5 | 10 | 7 | 5 | | | |

| NAME OF OFFICE. | Age 22. | Age 25. | Age 28. | Age 35. | Age 40. | Age 45. | Age 50. | Age 55. | Age 60. |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | £ s. d. | £ s. d. | £ s. d. | £ s. d. | £ s. d. | £ s. d. | £ s. d. | £ s. d. | £ s. d. |
| †Gresham | 1 18 9 | 2 2 2 | 2 7 6 | 2 14 3 | 3 2 10 | 3 14 8 | 4 8 5 | 5 7 5 | 6 12 3 |
| Guardian | 1 18 2 | 2 2 4 | 2 8 10 | 2 16 7 | 3 4 6 | 3 15 2 | 4 9 3 | 5 8 4 | 6 14 4 |
| †Law Union & L. ock | 1 28 6 | 2 2 0 | 2 8 4 | 2 15 3 | 3 4 0 | 3 15 5 | 4 9 10 | 5 10 6 | 6 16 8 |
| †Life Assoc. of 4 t | 1 29 3 | 2 3 3 | 2 8 11 | 2 16 1 | 3 4 10 | 3 16 3 | 4 11 1 | 5 10 9 | 6 16 10 |
| †L. pool & L. ord & (1) | 2 0 4 | 2 4 2 | 2 9 10 | 2 16 10 | 3 5 9 | 3 17 0 | 4 11 3 | 5 12 4 | 6 18 8 |
| †London & Man. ch. ter | 1 29 3 | 2 3 4 | 2 9 8 | 2 16 3 | 3 5 5 | 3 16 9 | 4 11 11 | 5 12 4 | 6 17 6 |
| †London & Scottish | 1 29 3 | 2 12 2 | 2 8 9 | 2 15 10 | 3 4 9 | 3 16 8 | 4 11 2 | 5 12 4 | 6 17 7 |
| †London Assurance | 1 29 9 | 2 3 3 | 2 9 0 | 2 15 9 | 3 4 8 | 3 15 10 | 4 10 2 | 5 8 5 | 6 14 11 |
| †London General | 1 13 8 | 1 16 0 | 2 0 7 | 2 6 11 | 2 15 3 | 3 6 4 | 4 10 10 | 5 0 6 | 6 7 5 |
| †London Life | 1 27 3 | 2 0 8 | 2 5 3 | 2 11 5 | 2 19 0 | 3 9 0 | 4 2 0 | 5 0 0 | 6 3 0 |
| †Manufacturers | 1 28 10 | 2 2 7 | 2 8 6 | 2 15 11 | 3 5 2 | 3 17 8 | 4 14 1 | 5 16 2 | 6 22 5 |
| Marine & General | 1 29 7 | 2 3 3 | 2 8 10 | 2 16 0 | 3 5 0 | 3 16 7 | 4 12 6 | 5 12 1 | 6 18 8 |
| Motor Union | 1 29 9 | 2 3 3 | 2 8 9 | 2 15 7 | 3 4 11 | 3 16 6 | 4 11 6 | 5 10 6 | 6 16 8 |
| Mutual and Citizens | 1 18 6 | 2 2 8 | 2 8 9 | 2 16 1 | 3 5 3 | 3 15 7 | 4 9 9 | 5 11 6 | 6 17 10 |
| National Farmers | | | | | | | | | |
| Union Mutual | 1 26 9 | 2 0 2 | 2 5 7 | 2 12 4 | 3 0 10 | 3 11 10 | 4 6 0 | 5 4 3 | 6 8 1 |
| National Mutual | 2 0 9 | 2 3 4 | 2 8 4 | 2 14 11 | 3 3 7 | 3 14 11 | 4 9 6 | 5 9 4 | 6 16 1 |
| National Mut. of Aust | 1 27 7 | 2 1 3 | 2 6 8 | 2 13 3 | 3 1 6 | 3 12 4 | 4 7 2 | 5 9 2 | 6 18 10 |
| †National Provident | 2 0 3 | 2 4 3 | 2 10 2 | 2 17 5 | 3 6 3 | 3 17 4 | 4 11 1 | 5 8 8 | 6 13 10 |
| †Nth. Brit. & Mercan | 1 29 1 | 2 3 5 | 2 9 10 | 2 17 0 | 3 6 1 | 3 16 7 | 4 11 11 | 5 12 1 | 6 16 7 |
| †Northern | 2 1 2 | 2 3 10 | 2 9 0 | 2 15 9 | 3 4 8 | 3 16 2 | 4 10 10 | 5 10 2 | 6 17 4 |
| Norwich Union | 2 3 5 | 2 6 8 | 2 11 9 | 2 18 2 | 3 6 6 | 3 17 7 | 4 11 5 | 5 11 6 | 6 17 3 |
| †Pearl | 1 29 10 | 2 3 7 | 2 9 0 | 2 16 0 | 3 5 0 | 3 16 11 | 4 12 0 | 5 11 10 | 6 17 1 |
| †Phoenix | 1 29 7 | 2 3 3 | 2 8 10 | 2 15 8 | 3 4 4 | 3 15 2 | 4 9 2 | 5 9 10 | 6 11 3 |
| †Prov. Assoc. of Lon | 1 29 5 | 2 3 1 | 2 8 8 | 2 15 10 | 3 4 9 | 3 16 3 | 4 10 11 | 5 9 10 | 6 18 8 |
| †Provident Mut. rl | 1 29 0 | 2 3 0 | 2 8 8 | 2 15 8 | 3 4 8 | 3 16 0 | 4 10 4 | 5 9 0 | 6 13 4 |
| †Prudential | 1 27 8 | 2 1 2 | 2 7 0 | 2 14 11 | 3 4 6 | 3 16 2 | 4 11 2 | 5 12 1 | 6 17 1 |
| †Refuge | 1 28 8 | 2 3 0 | 2 9 3 | 2 16 6 | 3 5 9 | 3 16 6 | 4 11 9 | 5 11 9 | 6 18 8 |
| Royal | 2 0 4 | 2 3 8 | 2 8 8 | 2 15 8 | 3 4 8 | 3 16 0 | 4 10 0 | 5 8 0 | 6 11 8 |
| †Royal Exchange | 1 28 5 | 2 3 3 | 2 9 0 | 2 16 0 | 3 4 9 | 3 15 10 | 4 10 2 | 5 9 11 | 6 16 4 |
| †Royal London | 1 26 7 | 2 0 7 | 2 6 8 | 2 14 2 | 3 3 9 | 3 15 10 | 4 11 7 | 5 12 4 | 6 17 4 |
| Salvation Army | 1 27 11 | 2 1 9 | 2 7 7 | 2 15 0 | 3 4 4 | 3 16 3 | 4 11 9 | 5 11 9 | 6 18 1 |
| Scottish Amicable | 2 3 0 | 2 6 5 | 2 11 9 | 2 18 0 | 3 6 3 | 3 16 3 | 4 10 1 | 5 11 0 | 6 18 0 |
| Scottish Equitable | 2 1 0 | 2 5 0 | 2 10 6 | 2 18 0 | 3 5 6 | 3 16 6 | 4 10 6 | 5 10 9 | 6 16 6 |
| Scottish Insurance | 1 28 10 | 2 2 6 | 2 8 0 | 2 14 8 | 3 3 2 | 3 14 4 | 4 9 4 | 5 9 7 | 6 16 8 |
| †Scottish Life | 2 0 0 | 2 3 6 | 2 9 5 | 2 16 1 | 3 4 6 | 3 15 10 | 4 10 5 | 5 10 6 | 6 16 4 |
| †Scottish Provident | 1 28 7 | 2 11 8 | 2 16 7 | 2 21 11 | 3 1 0 | 3 17 3 | 4 13 3 | 5 13 3 | 6 18 11 |
| †Scott. Life Insurance | 1 29 7 | 2 3 0 | 2 8 6 | 2 15 3 | 3 3 9 | 3 15 0 | 4 9 10 | 5 9 8 | 6 15 8 |
| †Scott. Union & Nat. | 2 0 8 | 2 4 8 | 2 10 0 | 2 17 0 | 3 5 2 | 3 17 0 | 4 12 0 | 5 12 0 | 6 18 0 |
| Scottish Widows | 2 3 1 | 2 6 6 | 2 11 9 | 2 18 2 | 3 6 3 | 3 16 4 | 4 10 7 | 5 12 4 | 6 18 10 |
| †Southern Life | 1 26 6 | 2 1 6 | 2 6 5 | 2 13 3 | 3 1 6 | 3 12 4 | 4 7 2 | 5 9 1 | 6 15 8 |
| †Standard | 1 28 10 | 2 2 8 | 2 8 5 | 2 15 8 | 3 4 4 | 3 15 10 | 4 10 1 | 5 8 11 | 6 17 8 |
| †Sun Life | 1 27 11 | 2 2 6 | 2 9 2 | 2 16 8 | 3 6 6 | 3 17 8 | 4 14 2 | 5 14 10 | 6 19 10 |
| †Sun Life of Canada | 1 28 9 | 2 2 6 | 2 8 5 | 2 15 10 | 3 5 4 | 3 17 10 | 4 14 2 | 5 15 11 | 6 20 1 |
| †United King. Temp. | 2 0 10 | 2 4 6 | 2 10 3 | 2 17 4 | 3 6 7 | 3 18 1 | 4 12 7 | 5 12 4 | 6 17 0 |
| †University Life | 2 2 7 | 2 6 6 | 2 12 4 | 2 19 8 | 3 8 9 | 4 0 2 | 4 14 10 | 5 13 7 | 6 17 11 |
| †Wesleyan & General | 1 29 3 | 2 3 1 | 2 9 0 | 2 16 5 | 3 5 7 | 3 17 1 | 4 11 9 | 5 10 7 | 6 15 0 |
| †Yorkshire | 2 0 4 | 2 3 10 | 2 9 1 | 2 15 11 | 3 4 9 | 3 16 4 | 4 11 7 | 5 12 0 | 6 18 11 |

† On as thus marked have a plan for accepting Assurances without medical examination, but in the majority of cases there is a limit to the amount that can be assured under this arrangement.

Abolitioners and Central Abolitioners' rates.
 African Life—these rates are for the first 25 years and are then reduced and carry a guaranteed Bonus.
 Eagle Star & British India—Lower rates are quoted for 25 years Abolitioners' Section.
 Loyal & General—With guaranteed Bonus of 20 per cent per annum ordinary with profit Policies are not issued.
 London Life—Allowance is made for quarter years in ages at entry.
 Nat. Mut. of Aust.—Rates are for age nearest birthday.
 Provident—A reduction in the rate is made for Assurances of £1,000 or over up to £2,000, and a further reduction for over £5,000.
 Sun Life—Reductions granted to total abstinence.
 University Life—Total Bonuses guaranteed to amount to at least 30 per cent per annum for first 25 years and 35 per cent per annum thereafter.

| NAME OF OFFICE. | £100 ASSURED PAYABLE AT DEATH OR AT THE END OF | | | | | | | | | | | |
|---------------------|--|---------|---------|---------|-----------|---------|---------|---------|-----------|---------|---------|---------|
| | 25 YEARS. | | | | 30 YEARS. | | | | 35 YEARS. | | | |
| | Age 35. | Age 40. | Age 45. | Age 50. | Age 55. | Age 60. | Age 65. | Age 70. | Age 75. | Age 80. | Age 85. | Age 90. |
| Royal | 6 17 | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 | 6 39 |
| Royal Exchange | 6 18 | 6 20 | 6 22 | 6 24 | 6 26 | 6 28 | 6 30 | 6 32 | 6 34 | 6 36 | 6 38 | 6 40 |
| Royal London | 6 17 | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 | 6 39 |
| Salvation Army | 7 1 | 7 3 | 7 5 | 7 7 | 7 9 | 7 11 | 7 13 | 7 15 | 7 17 | 7 19 | 7 21 | 7 23 |
| Scottish Amicable | 6 18 | 6 20 | 6 22 | 6 24 | 6 26 | 6 28 | 6 30 | 6 32 | 6 34 | 6 36 | 6 38 | 6 40 |
| Scottish Equitable | 6 15 | 6 17 | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 |
| Scottish Insurance | 6 16 | 6 18 | 6 20 | 6 22 | 6 24 | 6 26 | 6 28 | 6 30 | 6 32 | 6 34 | 6 36 | 6 38 |
| Scottish Life | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 | 6 39 | 6 41 |
| Scottish Provident | 6 17 | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 | 6 39 |
| Scottish Temp. | 6 16 | 6 18 | 6 20 | 6 22 | 6 24 | 6 26 | 6 28 | 6 30 | 6 32 | 6 34 | 6 36 | 6 38 |
| Scottish Un. & Nat. | 6 17 | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 | 6 39 |
| Scottish Widows | 6 17 | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 | 6 39 |
| Southern Life | 6 18 | 6 20 | 6 22 | 6 24 | 6 26 | 6 28 | 6 30 | 6 32 | 6 34 | 6 36 | 6 38 | 6 40 |
| Standard | 6 16 | 6 18 | 6 20 | 6 22 | 6 24 | 6 26 | 6 28 | 6 30 | 6 32 | 6 34 | 6 36 | 6 38 |
| Sun Life | 6 15 | 6 17 | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 |
| Sun of Canada | 6 17 | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 | 6 39 |
| United King. Temp. | 6 17 | 6 19 | 6 21 | 6 23 | 6 25 | 6 27 | 6 29 | 6 31 | 6 33 | 6 35 | 6 37 | 6 39 |
| University Life | 6 18 | 6 20 | 6 22 | 6 24 | 6 26 | 6 28 | 6 30 | 6 32 | 6 34 | 6 36 | 6 38 | 6 40 |
| Wesleyan & Gen. | 6 18 | 6 20 | 6 22 | 6 24 | 6 26 | 6 28 | 6 30 | 6 32 | 6 34 | 6 36 | 6 38 | 6 40 |
| W. & A. L. & C. | 6 18 | 6 20 | 6 22 | 6 24 | 6 26 | 6 28 | 6 30 | 6 32 | 6 34 | 6 36 | 6 38 | 6 40 |

over up to £500 and forth.

LIFE ASSURANCE.

The business of foreign and colonial companies doing business in the United Kingdom is as follows in the following table—

| COMPANY. | 1907. |
|---|-------------|
| Foreign & Colonial Life Assurance Co., Ltd. | £38,805,281 |
| Colonial Life Assurance Co., Ltd. | 9,447,456 |
| Colonial Life Assurance Co., Ltd. | 48,252,738 |
| Colonial Life Assurance Co., Ltd. | 9,828,359 |
| Colonial Life Assurance Co., Ltd. | 12,655,778 |
| Colonial Life Assurance Co., Ltd. | 6,596,651 |
| Colonial Life Assurance Co., Ltd. | 29,080,788 |
| Colonial Life Assurance Co., Ltd. | 80,519,449 |
| Colonial Life Assurance Co., Ltd. | 179,143,379 |
| Colonial Life Assurance Co., Ltd. | 56,871,402 |
| Colonial Life Assurance Co., Ltd. | 903,560,512 |

Notes for Table 447—

* Australian Life and Mutual and Citizens Rates are for quarterly payments.

† London Life Rates are for exact ages stated, but are apportioned for a fractional age at time of purchase.

OFFICE.

| | Age 40 | | | Age 50 | | | Age 60 | | | Age 70 | | | Age 80 | | | Age 90 | | | Age 100 | | |
|------------------------------|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|--------|----|----|---------|----|----|
| | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C |
| African Life | 6 | 7 | 8 | 7 | 9 | 0 | 9 | 6 | 12 | 17 | 8 | 6 | 17 | 4 | 8 | 6 | 17 | 4 | 8 | 6 | 17 |
| Alliance | 5 | 14 | 8 | 6 | 16 | 6 | 8 | 15 | 6 | 12 | 8 | 5 | 5 | 7 | 9 | 6 | 3 | 9 | 7 | 12 | 7 |
| Atlas | | | | 6 | 19 | 10 | 8 | 18 | 8 | 12 | 10 | | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 15 | 10 |
| *Australian Mutual | 5 | 8 | 6 | 6 | 12 | 0 | 8 | 13 | 4 | 12 | 9 | 8 | 5 | 2 | 2 | 5 | 19 | 10 | 7 | 11 | 12 |
| Britannic | | | | 7 | 1 | 8 | 8 | 16 | 10 | 12 | 9 | 4 | 6 | 7 | 10 | 7 | 16 | 10 | 10 | 13 | |
| British Equitable | 5 | 19 | 4 | 7 | 0 | 0 | 8 | 18 | 8 | 12 | 12 | 0 | 5 | 12 | 10 | 6 | 7 | 8 | 7 | 15 | 10 |
| British General | 5 | 19 | 5 | 7 | 0 | 0 | 8 | 18 | 9 | 12 | 12 | 0 | 5 | 12 | 10 | 6 | 7 | 7 | 7 | 15 | 11 |
| Caledonian | | | | 7 | 3 | 8 | 9 | 4 | 6 | 12 | 16 | 5 | 6 | 11 | 4 | 8 | 1 | 6 | 11 | 1 | |
| Canada Life | 6 | 5 | 8 | 7 | 7 | 6 | 9 | 6 | 12 | 17 | 5 | 5 | 19 | 3 | 6 | 15 | 1 | 8 | 3 | 5 | 11 |
| Clerical, Medical & General | | | | 6 | 17 | 10 | 9 | 0 | 8 | 12 | 15 | 8 | 6 | 3 | 10 | 7 | 15 | 10 | 10 | 17 | |
| Colonial Mutual | 5 | 16 | 8 | 7 | 0 | 4 | 9 | 2 | 6 | 12 | 1 | 2 | 5 | 12 | 10 | 6 | 11 | 0 | 8 | 3 | 11 |
| Commercial Union | 5 | 19 | 5 | 7 | 0 | 0 | 8 | 18 | 9 | 12 | 12 | 0 | 5 | 12 | 10 | 6 | 7 | 7 | 7 | 15 | 11 |
| Confederation | 6 | 5 | 8 | 7 | 7 | 6 | 9 | 6 | 12 | 17 | 5 | 5 | 19 | 3 | 6 | 15 | 1 | 8 | 3 | 5 | 11 |
| Co-operative Ins. | 5 | 15 | 2 | 6 | 14 | 4 | 8 | 10 | 4 | 12 | 1 | 8 | 5 | 2 | 8 | 6 | 2 | 6 | 7 | 9 | 0 |
| Eagle Star & British Dom | | | | 7 | 0 | 10 | 8 | 19 | 0 | 12 | 10 | 10 | 6 | 8 | 10 | 7 | 16 | 6 | 10 | 14 | |
| Equitable | 6 | 4 | 0 | 7 | 4 | 0 | 9 | 2 | 6 | 12 | 16 | 0 | 5 | 19 | 0 | 6 | 10 | 0 | 7 | 10 | 12 |
| Equity & Law | 6 | 0 | 4 | 7 | 0 | 10 | 8 | 19 | 0 | 12 | 12 | 11 | 5 | 13 | 9 | 6 | 11 | 8 | 7 | 16 | 10 |
| Friends Prov & Cent | 6 | 3 | 10 | 7 | 3 | 10 | 9 | 2 | 8 | 12 | 13 | 4 | 5 | 17 | 4 | 6 | 11 | 8 | 7 | 19 | 8 |
| General | 5 | 16 | 4 | 6 | 12 | 0 | 8 | 16 | 2 | 12 | 7 | 0 | 5 | 12 | 0 | 6 | 6 | 2 | 7 | 14 | 0 |
| Gresham | 5 | 19 | 6 | 7 | 0 | 0 | 8 | 18 | 9 | 12 | 12 | 0 | 5 | 12 | 10 | 6 | 7 | 8 | 7 | 15 | 11 |
| Guardian | 5 | 17 | 8 | 6 | 17 | 10 | 8 | 16 | 0 | 12 | 8 | 2 | 5 | 11 | 2 | 6 | 5 | 8 | 7 | 13 | 8 |
| Law Union and Rock | | | | 6 | 18 | 4 | 8 | 17 | 0 | 12 | 0 | 6 | 5 | 6 | 4 | 7 | 14 | 4 | 10 | 12 | |
| Legal and General | 5 | 18 | 0 | 6 | 18 | 0 | 8 | 16 | 4 | 12 | 8 | 4 | 5 | 11 | 8 | 6 | 6 | 0 | 7 | 13 | 8 |
| Life Association of Scotland | | | | 6 | 18 | 10 | 8 | 18 | 8 | 12 | 12 | 0 | 6 | 5 | 2 | 7 | 16 | 0 | 10 | 15 | |
| Liverpool & L. n. l. & Globe | 5 | 16 | 4 | 6 | 15 | 6 | 8 | 14 | 2 | 12 | 5 | 8 | 5 | 10 | 0 | 6 | 4 | 4 | 7 | 12 | 0 |
| London Assurance | | | | 8 | 18 | 10 | 8 | 18 | 10 | 12 | 12 | 0 | 6 | 5 | 10 | 7 | 15 | 0 | 10 | 15 | |
| London & Manchester | 6 | 0 | 8 | 7 | 4 | 10 | 9 | 7 | 4 | 13 | 4 | 6 | 5 | 16 | 10 | 6 | 15 | 4 | 8 | 2 | 12 |
| London and Scottish | 6 | 2 | 2 | 7 | 2 | 1 | 9 | 0 | 8 | 12 | 13 | 8 | 5 | 12 | 2 | 6 | 6 | 5 | 7 | 14 | 0 |
| *London Life | 6 | 3 | 5 | 7 | 3 | 1 | 9 | 0 | 11 | 12 | 12 | 2 | 5 | 17 | 2 | 6 | 11 | 2 | 7 | 18 | 6 |
| Manufacturers | 6 | 5 | 8 | 7 | 7 | 6 | 9 | 6 | 12 | 17 | 5 | 5 | 19 | 3 | 6 | 15 | 1 | 8 | 5 | 11 | 1 |
| Marine and General | 5 | 17 | 2 | 6 | 17 | 8 | 8 | 15 | 4 | 12 | 7 | 2 | 5 | 10 | 8 | 6 | 5 | 2 | 7 | 13 | 0 |
| Motor Union | | | | 6 | 19 | 8 | 9 | 0 | 8 | 12 | 17 | 2 | 6 | 9 | 6 | 7 | 19 | 8 | 11 | 4 | |
| *Mutual and City | 5 | 9 | 0 | 6 | 12 | 8 | 8 | 14 | 4 | 12 | 11 | 0 | 5 | 5 | 4 | 6 | 3 | 4 | 7 | 15 | 8 |
| National Mutual | 5 | 9 | 2 | 6 | 12 | 0 | 8 | 15 | 2 | 12 | 13 | 0 | 5 | 5 | 4 | 6 | 3 | 3 | 7 | 16 | 4 |
| National Mutual of Aust | 5 | 17 | 8 | 7 | 3 | 8 | 9 | 4 | 4 | 13 | 3 | 8 | 5 | 14 | 0 | 6 | 12 | 2 | 8 | 5 | 0 |
| National Provident | 5 | 18 | 10 | 8 | 19 | 0 | 8 | 16 | 8 | 12 | 10 | 5 | 5 | 12 | 4 | 6 | 6 | 10 | 7 | 14 | 6 |
| North British & Mercantile | 6 | 3 | 4 | 7 | 4 | 0 | 9 | 2 | 8 | 12 | 16 | 0 | 5 | 16 | 10 | 6 | 11 | 6 | 7 | 19 | 10 |
| Northern | 6 | 2 | 2 | 7 | 2 | 1 | 9 | 0 | 8 | 12 | 11 | 8 | 5 | 12 | 2 | 6 | 6 | 5 | 7 | 14 | 0 |
| Norwich Union Life | 5 | 12 | 0 | 6 | 18 | 0 | 8 | 18 | 9 | 12 | 12 | 0 | 5 | 7 | 0 | 6 | 5 | 8 | 7 | 15 | 11 |
| Pearl | | | | 6 | 17 | 2 | 8 | 14 | 6 | 12 | 5 | 10 | 6 | 5 | 2 | 7 | 12 | 4 | 10 | 9 | |
| Phoenix | 5 | 19 | 4 | 7 | 0 | 0 | 8 | 15 | 8 | 12 | 12 | 0 | 5 | 12 | 10 | 6 | 7 | 8 | 7 | 15 | 10 |
| Provident Assoc of London | 6 | 0 | 8 | 7 | 12 | 0 | 9 | 14 | 4 | 13 | 13 | 8 | 6 | 4 | 8 | 7 | 2 | 6 | 8 | 14 | 0 |
| Provident Mutual | 5 | 11 | 3 | 6 | 11 | 6 | 8 | 9 | 2 | 11 | 19 | 3 | 5 | 4 | 7 | 5 | 19 | 3 | 7 | 7 | 3 |
| Prudential | 5 | 16 | 6 | 6 | 16 | 0 | 8 | 12 | 6 | 12 | 1 | 10 | 5 | 10 | 4 | 6 | 4 | 2 | 7 | 10 | 10 |
| Refuge | 5 | 5 | 9 | 6 | 8 | 5 | 8 | 8 | 2 | 12 | 1 | 0 | 5 | 2 | 1 | 5 | 19 | 6 | 7 | 10 | 4 |
| Lojal | 5 | 19 | 0 | 6 | 19 | 0 | 8 | 16 | 6 | 12 | 15 | 0 | 5 | 12 | 4 | 6 | 7 | 0 | 7 | 14 | 4 |
| Royal Exchange | 5 | 19 | 5 | 7 | 0 | 0 | 8 | 18 | 9 | 12 | 12 | 0 | 5 | 12 | 10 | 6 | 7 | 7 | 7 | 15 | 11 |
| Royal London | 6 | 3 | 0 | 7 | 4 | 0 | 9 | 0 | 8 | 12 | 18 | 0 | 5 | 19 | 0 | 6 | 13 | 0 | 8 | 0 | 10 |
| Salvation Army | 5 | 19 | 0 | 7 | 0 | 0 | 9 | 0 | 8 | 12 | 16 | 8 | 5 | 7 | 6 | 6 | 7 | 4 | 8 | 3 | 11 |
| Scottish Atlantic | | | | 7 | 1 | 4 | 9 | 0 | 8 | 12 | 11 | 0 | 6 | 8 | 8 | 6 | 8 | 8 | 7 | 16 | 4 |
| Scottish Equitable | 5 | 19 | 6 | 7 | 0 | 0 | 8 | 18 | 10 | 12 | 11 | 0 | 5 | 12 | 10 | 6 | 7 | 8 | 7 | 16 | 0 |
| Scottish Insurance | | | | 7 | 0 | 0 | 8 | 18 | 8 | 12 | 12 | 0 | 6 | 7 | 8 | 7 | 15 | 10 | 10 | 15 | |

| Est. d. | Nature of Business | Name of Company | Address of Head and Local Offices |
|---------|--|--------------------------------|--|
| 1803 | F A | " | " |
| 1804 | All cl ex L | " | " |
| 1900 | F, A, H & Co | " | " |
| 1896 | F | " | " |
| 1904 | A V | " | " |
| 1890 | A V ex L | Fine Arts and General | 69 and 90 Cheapside E C 2 |
| 1898 | L Annuity | Fried's Present and Century | 7 Leadenhall street F C 3 28 Chiswell square E C 2 |
| 1885 | A L, F O V | General Accident | Firth General buildings Aldwych Strand W C 2 |
| 1897 | L | General Life | General buildings Aldwych W C 2 |
| 1848 | L | Gresham Life | 188 190, Fleet street E C 4 |
| 1910 | { A Po Eu F } { G Ma, P } { Mc & Yu, V } | Gresham Fire and Accident | 188 190 Fleet street E C 4 |
| 1840 | { F A L O V } | Guarantee Society | 19 Burchell street E C 3 |
| 1821 | { F A L, Bu } { M O P } | Guardian | 68 King William street E C 4 |
| 1903 | L, Bu, F A V | " | " |
| 1908 | F A G Mc | " | " |
| 1878 | (A, A & F) | " | " |
| 1824 | M | " | " |
| 1821 | A | " | " |
| 1892 | A G Bu V | Law Accident | 5 Chancery lane W C 2 |
| 1907 | F A V | Law Fire | 114 Chancery lane W C 2 |
| 1845 | F A L V | Law Union and Rock | 7 Chancery lane W C 2 |
| 1907 | { All classes } { except Life } | Legal | Legal Ins buildings, 231, Strand W C 2 |
| 1896 | { All classes } { ex. Marine } | Legal and General | 10 Fleet street E C 4 |
| 1890 | { All classes } { except Life } | Licences and General | 24-28 Moorgate E C |
| 1838 | L | Life Association of Scotland | 22 Prince street E C 2 28 Bishopsgate E C |
| 1836 | { F L A M } { Bo Bu (a G) } { Ma F V } | Liverpool & London & Globe | 1 Docks street Liverpool & Cornhill E C 3 |
| 1866 | P | Liverpool & London Plate Glass | 14 Dale street Liverpool |
| 1918 | { M F A Pu } { Mc & Co } | Liverpool Marine and General | 7 Leadenhall street E C 3 |
| 1843 | Liverpool | Liverpool Victoria | 10 to 11 1/2 South viewpton row W C 2 |
| " | " | " | 11 street S W 2 |
| " | " | " | W C 2 (Chief Administrator) Leadenhall street, E C 3 |
| 1862 | { B L G Li } { Mc V M } | London and Scottish | King William House Arthur street, E C 4 |
| 1869 | All cl ex M | " | " |
| 1885 | P | " | " |
| 1860 | M F A | " | " |
| 1720 | F M L A V | " | " |
| 1906 | L F Mc | " | " |
| 1869 | { All classes } { except Life } | " | " |
| 1806 | L | Law and Life | 81 King William street E C 4 |
| 1854 | L | Machinery Steamers Leas | 20 Quay street Deansgate Manchester |
| 1887 | L | Manufacturers | 70 to 72 British Columbia House 1, Regent street S W 2 |
| 1876 | M | " | " |
| 1852 | L M | " | " |
| 1864 | M | " | " |
| 1884 | A L | " | " |
| 1871 | M | " | " |
| 1898 | A | " | " |
| 1896 | P | Millers Mutual Plate Glass | 200 Wolverhampton street Dudley |
| 1906 | M, F, L A M | Motor Union | 10, St James street S W 2 |
| 1903 | F, V | Municipal Mutual | 26, Finsbury square E C 2 |

| Patd | Nature of Invention | |
|------|---------------------|--|
| 1886 | I, A | |
| 1899 | A, F, P, & Co | |
| 1864 | Bo Ma | |
| 1914 | A, B & Co | |
| 1910 | (A, B, C, Bu, F) | |
| 1910 | (L, C, M) | |
| 1897 | (All classes) | National of Great Britain |
| 1863 | (ex L & M) | National Guaranty & Suretyship |
| | G | Glasgow, 81, Cannon street E.C. 4 |
| | | Edinburgh Granville Ho, Arundel st, W.C. |
| | | PC 2 |
| | | ement E.C. 2 |
| | | st, Lacey |
| | | gh, 61, Thread |
| 1809 | I, L, A, M | North British and Mercantile |
| 1836 | I, L, A, M | Northern |
| 1797 | F, A, M, V | Norwich Union Fire |
| 1868 | L | Norwich Union Life |
| 1871 | (A, G, Bu, F,) | Ocean Accident |
| 1859 | (Mc Bo, & Co) | Ocean Marine |
| 1886 | (I, A, Bu, Mc,) | Palatine |
| 1864 | (P, Ho & Co) | Pearl |
| 1864 | (L, F, Bu, A,) | Phoenix |
| 1862 | (Mc F, Pu) | Pioneer |
| 1862 | F, L, A, M | |
| 1891 | L, A | |
| | | needle street F.C. 2 |
| | | Union ter, Aberdeen, 2 Moorgate, E.C. 4 |
| | | Norwich 50, Fleet-street, E.C. 4 |
| | | Norwich 49, Fleet street, E.C. 4 |
| | | 36 44 Moorgate E.C. 2 |
| | | 37-9 Lime street E.C. 3 |
| | | 1 & 2, Royal Exchange Buildings, E.C. 2 |
| | | 251 High Holborn, W.C. 1 |
| | | Phoenix House King William-street E.C. 4 |
| | | 67 Dale street, Liverpool |
| | | 4 Albert square Manchester |
| | | c lane, E.C. 4 |
| | | Mall East & W. 1 |
| | | regate, E.C. 2 |
| | | E.C. 2 |
| | | 10, E.C. 3 |
| | | 3 Strand W.C. |
| 1864 | L | |
| 1906 | F, A, Bu | |
| 1881 | M, I | |
| | | E.C. 3 |
| | | ware, E.C. |
| | | et & F |
| | | nhill E.C. |
| | | st, F.C. |
| | | 10, E.C. |
| 1852 | L (Ind) | |
| 1881 | L A | |
| 1876 | A F L, Mc, Mj | Scottish Petroleum |
| 1837 | L | |
| 1878 | (Reverations,) | |
| 1883 | L | |
| | | street, E.C. 4 |
| | | 10, E.C. |
| | | 10, E.C. |

| No. | Nature of Business | Name of Company | Address of Head and London Offices |
|------|----------------------|-------------------------------|---|
| 1871 | M | Standard Marine .. | 18 and 19 Exchange buildings <i>Liverpool</i> |
| 1891 | F, A, M | State | <i>Liverpool</i> 112 Cannon street, E.C. 4 |
| 1910 | F, A, B, C, Ca | Sun | 63, Threadneedle street, E.C. 2. |
| | G, M, Mc P, Pu | | 63 Threadneedle-street E.C. 2. |
| 1810 | L | Sun Life | Montreal 2 & 4 Cockspur st S.W. |
| 1865 | L | Sun Life of Canada .. | <i>Liverpool</i> Lloyd's Leadenhall street, E.C. 3 |
| 1850 | M | Thames and Mersey | Winchester House, Old Broad street E.C. 2. |
| 1887 | Trustees & Executors | Trustees Corp. Ltd | <i>Delfant</i> |
| 1867 | M | Union Marine | 1 & 2 Royal Exchange buildings E.C. 3. |
| 1914 | F A V | Union Assurance | 11 Dale st <i>Liverpool</i> 1 Bankchurch av, E.C. 3 |
| 1907 | M | Union Marine | 1 & 3 Queen-street place E.C. 4 |
| 1863 | M | United British | |
| 1915 | A F, Mc | | |
| 1899 | M, F | World Marine | 30 Cornhill E.C. 3 |
| 1854 | F A M | Windsor Ins. Ass. Co. | 21/21/21/21 78/80 Cornhill E.C. 3 |
| 1824 | F A L, V M & others | | 41 Helen's square 100k, Bank Bldgs E.C. 2 |
| 1872 | A Pu Mc | Zurich General Acc. and Liab. | 100/100/100/100 100/100/100/100 High Holborn W.C. 1 |

ADVICE REGARDING LIFE ASSURANCE

for particular purposes and large sums may be saved or earned by intending proposers through obtaining reliable advice before a proposal is made.

Medical examinations are sometimes dispensed with in the case of new proposals but policies in these instances are sometimes subject to certain restrictive conditions of a temporary character.

- ments.
- (c) " " —Reduced premium for 5 years.
- (d) Endowment—With and without profit.
- (e) " " —Reduced premium for 5 years.
- (f) Children's Insurances—Educational.
- (g) " Non Medical " Insurances.

| Est. & Bal. 1891 | Name of Society abbreviated. | Address. | Members. | Advanced on 31st Dec. during Year ending 31st Dec. 1891 | Balance in Profit & Loss Account at 31st Dec. 1891 |
|------------------|------------------------------|---|----------|---|--|
| 1874 | Co-operative Building Socy | 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 | 11 | 316 700 91 634 62 290 163 255 284 690 20 060 132 008 214 050 68 084 53 850 370 982 54 563 59 140 67 015 58 625 207 684 65 405 | 41 750 17 320 85 524 37 505 49 173 2 359 51 922 19 905 21 858 6 458 59 112 13 442 10 638 8 607 16 958 52 518 6 796 |
| 1876 | Furness | | 4 167 | 55 695 | 22 817 |
| 1880 | Goldhawk Mut. Benefit | 17 High Rd. Chiswick W 4 | 3 370 | 106 375 | 17 421 |
| 1848 | Crays Co-op Mut. Perm. | 22 New Rd. Grays | 3 045 | 104 973 | 11 772 |
| | Grimsby & N. Lincs. Perm. | Osborn Street Grimsby | 678 | 19 013 | 20 683 |
| 1852 | Perpetual | 18 Grimsby St W Newcastle | 703 | 20 703 | 9 6 |
| | | | 9 330 | 310 190 | 116 |

| Total Value L. | Name of Society (abbreviated) | Address | Members | Advanced on 31st August during Year 1897 Report | Balance on 31st August 1897 |
|----------------|-------------------------------|---------|---------|---|-----------------------------|
| | | | | | 5 |
| | | | | | 11 893 |
| | | | | | 17 248 |
| | | | | | 7 281 |
| | | | | | 6 333 |
| | | | | | 58 350 |
| | | | | | 10 260 |
| | | | | | 11 239 |
| | | | | | 46 225 |
| | | | | | 319 |
| | | | | | 10 304 |
| | | | | | 13 977 |
| | | | | | 10 154 |
| | | | | | 8 320 |
| | | | | | 19 028 |
| | | | | | 19 230 |
| | | | | | 16 329 |
| | | | | | 56 362 |
| | | | | | 8 003 |
| | | | | | 8 185 |
| | | | | | 17 225 |
| | | | | | 10 056 |
| | | | | | 7 258 |
| | | | | | 14 272 |
| | | | | | 8 050 |
| | | | | | 10 934 |
| | | | | | 11 366 |
| | | | | | 5 226 |
| | | | | | 11 213 |
| | | | | | 7 112 |
| | | | | | 11 2 8 |
| | | | | | 1 037 |
| | | | | | 3 362 |
| | | | | | 17 612 |
| | | | | | 4 422 |
| | | | | | 5 890 |
| | | | | | 4 005 |
| | | | | | 7 682 |
| | | | | | 11 258 |
| | | | | | 11 857 |
| | | | | | 7 522 |
| | | | | | 7 207 |
| | | | | | 10 056 |
| | | | | | 4 432 |
| | | | | | 3 311 |
| | | | | | 4 647 |
| | | | | | 11 033 |
| | | | | | 7 472 |
| | | | | | 7 100 |
| | | | | | 9 489 |
| | | | | | 5 226 |
| | | | | | 8 525 |
| | | | | | 9 294 |
| | | | | | 11 277 |
| | | | | | 11 214 |
| | | | | | 11 212 |
| | | | | | 11 207 |
| | | | | | 766 |
| | | | | | 1 400 |
| | | | | | 1 467 |
| | | | | | 342 |
| | | | | | 1 603 |
| | | | | | 1 230 |
| | | | | | 791 |

Note.—(C) signifies "Incorporated," as formed prior to 1874 and working under the Act of 1874.

| | | | |
|--------------------------|-----------|---|-------|
| *Twopence ad | 14 54545 | — | 0 144 |
| *Penny ad | 7 27272 | — | 0 087 |
| BRONZE COINS | | | |
| Penny ad. | 145 83323 | — | 2 916 |
| Halfpenny ad | 87 50000 | — | 1 750 |
| Farthing $\frac{1}{4}$ d | 43 75000 | — | 0 875 |

The "Remedy" is the amount of variation from standard permitted in fineness and in weight.

Standard Silver formerly consisted of thirty

BRITISH DOMINIONS

1,000,000 Sterling Coins are the sole legal metallic currency in —

NEW ZEALAND FIJI AND ISLANDS

GI BRALTAR ST HELENA

WEST INDIES See also JAMAICA below

Special Coins are current in addition to the

pence

BRITISH WEST AFRICA — Silver and alloy metal 2s 1s 6d. and 3d.

One penny one halfpenny and one tenth penny (nickel bronze).

GUERNSEY — Eight doubles (= 1 penny) 2 and 1 double

JAMAICA — Nickel bronze pence, 1 and farthings

JERSEY — Special pence, halfpence, farthings

MALTA — One-third of a farthing

* Issued on special occasions.










† Very few of these weights one sixteenth of an oz.

| DOMINION | Monetary Unit (Standard Coin) | VALUE | | Gold Coins | SILVER AND OTHER SUBSIDIARY COINS |
|---|--|-------------------------------|------------------------------------|--|--|
| | | In British Currency s d | Pieces to the Pound Sterling | | |
| ADEN BRITISH HONDURAS | (see India) Gold Dollar | 4 1½ | 4 867 | British and United States | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents (cents) Silver—100 50 20 and 10 Nickel—5 2½ & 1 cent Bronze—1 cent, ½ and ¼ cent, rare |
| BRITISH NORTH BORNEO | 89 dollars at fixed rating | 2 4 | 8 57 | " | Silver—1 dollar, 50, 25 10 and 5 cents. Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| CANADA | Silver Dollar on gold basis | 4 1½ | 4 867 | Canadian \$10 & \$5, also British gold & U.S. \$20 & \$5 British | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| CZECHOSLOVAKIA | Indian Rupee fixed rating | 1 6 | 13½ | British | Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| CYPRUS | Piastre | 0 1½ | 180 | British | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| EAST AFRICA HONG KONG (and LABUAN) INDIA | (see India & c) Dollar Mexican or British Rupee (fixed rating) = 16 annas = 64 pice = 192 pice | 1 9½ | 11 00 | British and 15 rupee piece | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| IRAQ | (see India) Saoudi Pound | 2 | | | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| IRISH FREE STATE | | | | | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| KENYA TAN ZANIA AND UGANDA | Shilling | 2 | | | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| MALAYA | SS dollar at fixed rating | 2 4 | 8 57 | British | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| MAURITIUS (and SEYCHELLES) | Indian Rupee fixed rating | 1 6 | 13½ | " | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| NEWFOUNDLAND | Dollar on gold basis | 4 1½ | 4 867 | " | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| NEW ZEALAND | British Sovereign | 20 0 | 1 | British | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| PALESTINE | Pound Sterling divided into 1000 Millimes | 20 0 | 1 | " | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| SCOTLAND | Gold Pound of 100 Pounds | 20 6½ | 975 | £1, 50 Pounds | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |
| WEST AFRICA | British Sovereign | 20 0 | 1 | British | Silver—50 25 & 10 cents Nickel—5 cents Bronze—cents Silver—50 25 & 10 cents Nickel—5 cents Copper—1 ½, & ¼ cent Silver—10 9 4½ and 3 pistres Bronze—1 ½, and ½ pistres (cents) |

The only gold coin in circulation is the 1000 millime piece (Oct 15 1929) 13½ d per standard ounce. The only gold coin in circulation is the 1000 millime piece (Oct 15 1929) 13½ d per standard ounce. The only gold coin in circulation is the 1000 millime piece (Oct 15 1929) 13½ d per standard ounce.

Country and Monetary Unit

[illegible]

| | | | | |
|---|-----------------------|--------|--------|--|
|  | Old English capitals | | | |
|  | Roman letter small | | | |
|  | Roman letter capital | | | |
|  | Roman letter small | | | |
|  | Old English capitals | | | |
|  | Old English small | 1856-7 | 1875-6 | Imported Plate Any gold or silver plate or article name |
|  | Roman letter capitals | 1876-7 | | |
|  | Roman letter small | 1896-7 | | |
|  | Old English small | 1926-7 | | |

The Periods of English Architecture

| | Date | Style |
|--|---------------------------------------|--|
| I | Before B.C. 35 | Ancient British |
| II | B.C. 55 to A.D. 430 | Roman Period |
| III | A.D. 449 to Norman Conquest (1066) | Anglo-Saxon |
| IV | 1066-1189 (i.e. 12th & 13th cts) | Norman |
| V | 1189-1307 (i.e. 13th cent) | Early English (Lancet or Geometrical) |
| VI | 1307-1377 (i.e. 14th cent) | Decorated (or Curvilinear) |
| VII | 1377-1485 (i.e. 15th cent) | Perpendicular (or Rectilinear) |
| VIII | 1485-1558 (i.e. first half 16th cent) | Tudor |
| IX | A.D. 1558-1625 | Elizabethan (A.D. 1558-1603) |
| | | Jacobean (A.D. 1603-1625) |
| X | A.D. 1625-1830 | Stuart (A.D. 1625-1702) |
| | | Queen Anne and Georgian (A.D. 1702-1830) |
| | | William IV (A.D. 1830-1837) |
| | | Victoria (A.D. 1837-1901) |
| | | Edward VII (A.D. 1901-1910) |
| | | George V (A.D. 1910-1936) |
| If Modern Architecture } 19th cent to present time If a Age of Revivals } | | |

Note—The first portion (I-VIII) of this table is based upon that given on p. 319, *Part 1A*, Vol. 1, 1901, and *Modern*, on p. 264 of *A History of Architecture on the Comparative Method*, 8th ed., by Sir Banister Fletcher, F.R.S.E., F.S.A. (Batford.)

HALL MARKS ON PLATE*

London (Goldsmiths' Hall) Date Marks
From 1438 to 1936.

Birmingham Anchor (square frame for gold pointed shield for silver).
 Chester City Arms (3 Garbs and a Sword).
 Sheffield Crown.
 Edinburgh Castle.
 Glasgow Tree, Fish & Bell.
 Dublin Harp crowned.

In addition to the above there have been Assay Offices at Bristol Exeter Newcastle upon Tyne Norwich and York all of which have long been closed.

Makers Mark (instituted in 1363).—This is

h

Lombardic, simple 1438-9 to 1457-8

C

Lombardic, external cusps 1458-9, 1477-8

D

Lombardic, double cusps 1478-9 " 1497-8

K

Black letter, small 1498-9 " 1517-8

A

1518-9, 1537-8

B

and other 1538-9, 1557-8

a

r, small 1558-9, 1577-8

A

ter, capitals 1578-9, 1597-8

B

external 1598-9, 1617-8

e

r, small 1618-9, 1637-8

B

1638-9 " 1657-8

A

r, capitals 1658-9 " 1677-8

Sterling Gold—Articles of gold plate marked

a

Black letter, small 1678-9 " 1697-8

B

Court hand 1697 (from March 1697 only) 1715-6

A










Roman letter, capitals 1716-7 to 1735-6

a

Roman letter, small 1736-7 " 1755-6

| | £ | s | d |
|----------------------|---|----|-----|
| Pure gold 24 carats | 4 | 4 | 11½ |
| Standard, 22 carats | 3 | 17 | 10½ |
| and ditto, 22 carats | 3 | 3 | 8½ |
| 3rd ditto 18 carats | 2 | 13 | 3 |
| 4th ditto, 18 carats | 2 | 2 | 5¼ |
| 5th ditto, 9 carats | 1 | 11 | 10½ |

* For the greater part of the material for this article the letters of the Alphabet are indebted to the late Mr. William Chapman of 2 Old Broad Street, by whose courtesy also many of the illustrations were provided.

| | | | | |
|---|-----------------------|--------|--------|----------------|
|  | Old English capitals | | | |
|  | Roman letter, small | | | |
|  | Roman letter capital | | | |
|  | Roman letter small | | | |
|  | Old English capitals | | | |
|  | Old English small | 1856-7 | 1875-6 | Imported Plate |
|  | Roman letter capitals | 1876-7 | | |
|  | Roman letter, small | 1896-7 | | |
|  | Old English, small | 1916-7 | | |

The Periods of English Architecture.

Date

Style

| | | |
|--|--|---|
| I | Before B.C. 55 | Ancient British |
| II | B.C. 55 to A.D. 410 | Roman Period |
| III | A.D. 449 to Norman Conquest (1066) | Anglo-Saxon |
| IV | 1066-1189 (i.e. to end 12th cent.) | Norman |
| V | 1189-1307 (i.e. 13th cent.) | Early English (Lancet, or Geometrical). |
| VI | 1307-1377 (i.e. 14th cent.) | Decorated (or Curvilinear) |
| VII | 1377-1485 (i.e. 15th cent.) | Perpendicular (or Rectilinear). |
| VIII | 1485-1558 (i.e. first half 16th cent.) | Tudor |
| IX | A.D. 1558-1625 | Early Renaissance |
| X | A.D. 1625-1830 | Late Renaissance |
| Modern Architecture } 19th cent. to present time | | (11th Age of Revivals) |
| | | Ancient British |
| | | Roman Period |
| | | Anglo-Saxon |
| | | Norman |
| | | Early English (Lancet, or Geometrical). |
| | | Decorated (or Curvilinear) |
| | | Perpendicular (or Rectilinear). |
| | | Tudor |
| | | Elizabethan (A.D. 1558-1603). |
| | | Jacobean (A.D. 1603-1625). |
| | | Stuart (A.D. 1625-1702). |
| | | Queen Anne and Georgian (A.D. 1702-1830). |
| | | William IV (A.D. 1830-1837). |
| | | Victoria (A.D. 1837-1901). |
| | | Edward VII (A.D. 1901-1910). |
| | | George V (A.D. 1910-). |

Note.—The first portion (I-VIII) of this table is based upon that given on p. 319, Parts I and II, of "A History of Architecture on the Comparative Method," by Sir Banister Fletcher, F.R.S.A., F.S.A. (Batsford.)

oz

Avoirdupois Weight

7000 grains (gr) = 1 pound (lb)
 16 drams (dr) = 1 ounce (oz) (= Grains)
 16 ounces = 1 Pound (= 0.45359243 gram)
 14 pounds = 1 stone* (= 6.350 Kilogram)
 28 pounds = 1 quarter (of a cwt) (= Kilograms).

Troy Weight

30 1/2 m. 7.108 - 2.25 293 Sq Metres.
 40 perches = 1 rood (= 10 117 Acres)
 4 roods = 1 acre (= 0.40468 Hectare)
 10 square chains = 1 acre
 640 acres = 1 square mile (= 2.58995 Sq Miles)
 Dimensions of an Acre - The length of an acre is the furlong and the breadth is the chain, an acre being 4 840 sq. yds.

Angular or Circular Measure
 60 seconds (") = 1 minute (')
 60 minutes = 1 degree (°)
 90 degrees = 1 sign
 3 signs = 1 quadrant.

Miscellaneous Weights and Measures.

Apples (Bushel) = 37 to 43 lb (Average 40 lb).
 Ballast (Pig) = 56 lb.
 Beef (Barrel) = 300 lb.
 Piece of (Haw) = 300 lb.
 Blacklead (Cask) = 21½ cwt.
 Butter (Barrel) = 4 firkins = 224 lb.
 Camp or (Box) = 1 cwt.
 Cloves (Matt) = 80 lb.
 " (Chest) = 300 lb.
 Coal (Sack) = 224 lb.
 " (Bushel) = 80 lb.
 " (Chaldron) = 85 bushels.
 " (Ton) = 20 sacks.
 Cocon (Bag) = 112 lb.
 " (Cask) = 1 cwt. 28 lb.
 Coffee (Bag) = 140 to 168 lb.
 " (Bag of Mocha) = 224 to 280 lb.
 " (Barrel) = 224 to 280 lb.
 " (Tierce) = 5 to 7 cwt.
 Cotton (U.S. Bale) = 450 to 550 lb.
 " (Egyptian Bale) = 700 to 740 lb.
 " (Ind. an Bale) = 400 lb.
 " (Tivelly) 500 lb.
 Currants (Caroteel) = 5 to 9 cwt.
 Flour (Peck) = 24 lb.
 " (Bag) = 140 lb.
 Glass (Beam) = 24 stone of 5 lb = 120 lb.
 Gunpowder (Barrel) = 100 lb.
 Hides (Last) = 12 dozen.
 Honey (Gallon) = 12 lb.
 Hops (Bag) = 280 lb.
 " (Pocket) = 1½ to 2 cwt.
 Lead (Fodde) = —
 London and Hull = 19½ cwt.
 Derby and Newcastle = 21½ cwt.
 3 eat (Stone) = 8 lb.
 Nuts (Barcelona Bag) = 126 lb.
 Oats (Barrel) = 24 stone.
 Pepper (Bag of black) = 316 lb.
 " (Bag of white) = 168 lb.
 Pork (Barrel) = 224 lb.
 Potatoes (Sack) = 112 lb (11 or 122).
 Raisins (Barrel) = 112 lb.
 Rice (Paw) = 168 lb.
 Sago (Bag) = 112 lb.
 Saltpetre (Bag) = 168 lb.
 Soft soap (Barrel or Park) = 256 lb.
 " (Parkin) = 64 lb.
 Steel (Faggot) = 120 lb.
 Sugar (Bag) = 212-296 lb.
 " (Hogal rad) = 23 to 26 cwt.
 " (Tierce) = 7 to 9 cwt.
 Tar (Barrel) = 26½ gallons.
 Tea (Chest) = 84 lb.
 Tobacco (Hogshead) = 12 to 18 cwt.
 Turpentine (Barrel) = 224 to 280 lb.
 Wood (Cord) = 128 cubic feet.
 Wool (Sack) = 364 lb.

Wheat Corn and Flour

Hay and Straw

| Sizes of Barrels and Bottles | Gals. |
|--------------------------------------|-----------------------------|
| Firkin or Quarter Barrel | 9 = 9 X 2 |
| Killickin Rundlet or ½ Barrel | 18 = 9 X 4 |
| Barrel | 36 = 9 X 8 |
| Hogshead (1½ barrels) | 54 = 9 X 6 |
| Punchon (2 barrels) | 72 = 9 X 8 |
| Butt of Ale (3 barrels) | 108 = 9 X 12 |
| An Anker = 20 gallons | a Tierce = 42 gallons |
| a Pipe of Port or Madeira = 112 gals | 1 cheriff = 100 gals |
| Marala = 93 gals | Madura an i |
| Cape = 92 gals | Sherry and Rent = 108 gals. |

Water

The British Ton is the weight of a cubic British Metro of pure water at the temperature of 1 alt l. we very nearly At present the following relations hold good —

| | |
|-------------------------|---------------------|
| Cubic inch | = 252 458 grains |
| Gallon (277 274 cub in) | = 10 lb (d stilled) |
| Cub c foot | = 62 321 lb |

At stialia —

N 4 W = 3 ft. 6 in and 4 ft 8 2 in
 Victoria and South Australia = 5 ft 3 in
 Queensland and Western Australia = 3 ft. 6 in
 New Zealand = 3 ft 6 in

Russia — 5 ft 4 in

1 new ph about 9 lb, each ad

ampère in one or two

recreational yard

44 45 46 47

| | | | |
|-------|----------------|------|-------|
| 0 79 | Mercury | ---- | 13 60 |
| 2 67 | Milk | ---- | 1 03 |
| 2 86 | Olive Oil | ---- | 4 45 |
| 1 05 | Petroleum | -- | 2 00 |
| 1 06 | Platinum | ---- | 21 45 |
| 0 84 | Portland Stone | ---- | 1 00 |
| 8 00 | Sand River | -- | 1 80 |
| 2 08 | p t | -- | 1 60 |
| 1 02 | Shingle | ---- | 20 35 |
| 1 00 | Silver | ---- | 0 87 |
| 1 60 | Sodium | ---- | 7 75 |
| 1 34 | Steel | ---- | 1 60 |
| 8 94 | Thames ballast | ---- | 7 00 |
| 0 24 | lin | ---- | 0 20 |
| 3 60 | Turpentine | ---- | 2 25 |
| 2 80 | Urine | ---- | 1 00 |
| 1 26 | WATER | ---- | 0 00 |
| 19 72 | Wine Bordeaux | ---- | 0 00 |
| 1 85 | Wood | ---- | 0 00 |
| 0 93 | Ash | -- | 0 00 |
| 3 45 | Beech | -- | 0 00 |
| 0 98 | Cedar | -- | 0 00 |
| 22 38 | Cherry | ---- | 1 30 |
| 7 80 | Ebony | ---- | 1 40 |
| 7 79 | Mahogany | ---- | 1 40 |
| 2 83 | Maple | ---- | 0 00 |
| 11 35 | Poplar | ---- | 0 00 |
| 2 50 | Walnut | ---- | 0 00 |
| | Zinc | ---- | 7 00 |

Builders Measurements

| | | | |
|----------------------|--------------|---------|---------|
| Stock or kiln bricks | 2 1/4 inches | X 4 1/4 | X 2 1/4 |
| Well fire bricks | 9 | X 4 1/2 | X 2 1/4 |
| | | X 4 3/4 | X 2 1/2 |

| | | | | | |
|-----------|----|-------|--------|----|----|
| Leam | .. | 11 35 | Poplar | .. | .. |
| Limestone | | 2 50 | Walnut | .. | .. |
| Marble | .. | 2 70 | Zinc | .. | .. |
| Marl | .. | 1 90 | | | |

To find the weight of a cubic foot multiply by 25 943

es in Fajal
deasures Ac
fresh herring
ing 37 x 10

Thermometer Comparisons.

Comparisons between Scales of Fahrenheit, Reaumur and Centigrade.

| FARH | REAU. | CENT | FARH | REAU. |
|------|-------|------|------|-------|
| 100 | 80 | 37.8 | 100 | 80 |
| 99 | 79.2 | 36.7 | 99 | 79.2 |
| 98 | 78.4 | 35.6 | 98 | 78.4 |
| 97 | 77.6 | 34.5 | 97 | 77.6 |
| 96 | 76.8 | 33.3 | 96 | 76.8 |
| 95 | 76 | 32.2 | 95 | 76 |
| 94 | 75.2 | 31.1 | 94 | 75.2 |
| 93 | 74.4 | 30 | 93 | 74.4 |
| 92 | 73.6 | 28.9 | 92 | 73.6 |
| 91 | 72.8 | 27.8 | 91 | 72.8 |
| 90 | 72 | 26.7 | 90 | 72 |
| 89 | 71.2 | 25.6 | 89 | 71.2 |
| 88 | 70.4 | 24.5 | 88 | 70.4 |
| 87 | 69.6 | 23.3 | 87 | 69.6 |
| 86 | 68.8 | 22.2 | 86 | 68.8 |
| 85 | 68 | 21.1 | 85 | 68 |
| 84 | 67.2 | 20 | 84 | 67.2 |
| 83 | 66.4 | 18.9 | 83 | 66.4 |
| 82 | 65.6 | 17.8 | 82 | 65.6 |
| 81 | 64.8 | 16.7 | 81 | 64.8 |
| 80 | 64 | 15.6 | 80 | 64 |

112 lb. a barrel of anchovies = 30 lb. a box of fish is about 90 lb. a Newfoundland box of fish contains 100 lb. 112 lb. & 128 lb. to suit the requirements of the different markets.

Geographical Measures.

The North and South Poles are two points at

24 902 11

Measures of Heat

The comparisons in col are of Thermometers

| cent | 32° F | Fahrenheit | 32° F | cent | 32° F | Fahrenheit |
|------|-------|------------|-------|------|-------|------------|
| 43 | 109.4 | 109.4 | 109.4 | 43 | 109.4 | 109.4 |
| 42 | 108.8 | 108.8 | 108.8 | 42 | 108.8 | 108.8 |
| 41 | 108.2 | 108.2 | 108.2 | 41 | 108.2 | 108.2 |
| 40 | 107.6 | 107.6 | 107.6 | 40 | 107.6 | 107.6 |
| 39 | 107 | 107 | 107 | 39 | 107 | 107 |
| 38 | 106.4 | 106.4 | 106.4 | 38 | 106.4 | 106.4 |
| 37 | 105.8 | 105.8 | 105.8 | 37 | 105.8 | 105.8 |
| 36 | 105.2 | 105.2 | 105.2 | 36 | 105.2 | 105.2 |
| 35 | 104.6 | 104.6 | 104.6 | 35 | 104.6 | 104.6 |
| 34 | 104 | 104 | 104 | 34 | 104 | 104 |
| 33 | 103.4 | 103.4 | 103.4 | 33 | 103.4 | 103.4 |
| 32 | 102.8 | 102.8 | 102.8 | 32 | 102.8 | 102.8 |
| 31 | 102.2 | 102.2 | 102.2 | 31 | 102.2 | 102.2 |
| 30 | 101.6 | 101.6 | 101.6 | 30 | 101.6 | 101.6 |
| 29 | 101 | 101 | 101 | 29 | 101 | 101 |
| 28 | 100.4 | 100.4 | 100.4 | 28 | 100.4 | 100.4 |
| 27 | 99.8 | 99.8 | 99.8 | 27 | 99.8 | 99.8 |
| 26 | 99.2 | 99.2 | 99.2 | 26 | 99.2 | 99.2 |
| 25 | 98.6 | 98.6 | 98.6 | 25 | 98.6 | 98.6 |
| 24 | 98 | 98 | 98 | 24 | 98 | 98 |
| 23 | 97.4 | 97.4 | 97.4 | 23 | 97.4 | 97.4 |
| 22 | 96.8 | 96.8 | 96.8 | 22 | 96.8 | 96.8 |
| 21 | 96.2 | 96.2 | 96.2 | 21 | 96.2 | 96.2 |
| 20 | 95.6 | 95.6 | 95.6 | 20 | 95.6 | 95.6 |
| 19 | 95 | 95 | 95 | 19 | 95 | 95 |
| 18 | 94.4 | 94.4 | 94.4 | 18 | 94.4 | 94.4 |
| 17 | 93.8 | 93.8 | 93.8 | 17 | 93.8 | 93.8 |
| 16 | 93.2 | 93.2 | 93.2 | 16 | 93.2 | 93.2 |
| 15 | 92.6 | 92.6 | 92.6 | 15 | 92.6 | 92.6 |
| 14 | 92 | 92 | 92 | 14 | 92 | 92 |
| 13 | 91.4 | 91.4 | 91.4 | 13 | 91.4 | 91.4 |
| 12 | 90.8 | 90.8 | 90.8 | 12 | 90.8 | 90.8 |
| 11 | 90.2 | 90.2 | 90.2 | 11 | 90.2 | 90.2 |
| 10 | 89.6 | 89.6 | 89.6 | 10 | 89.6 | 89.6 |
| 9 | 89 | 89 | 89 | 9 | 89 | 89 |
| 8 | 88.4 | 88.4 | 88.4 | 8 | 88.4 | 88.4 |
| 7 | 87.8 | 87.8 | 87.8 | 7 | 87.8 | 87.8 |
| 6 | 87.2 | 87.2 | 87.2 | 6 | 87.2 | 87.2 |
| 5 | 86.6 | 86.6 | 86.6 | 5 | 86.6 | 86.6 |
| 4 | 86 | 86 | 86 | 4 | 86 | 86 |
| 3 | 85.4 | 85.4 | 85.4 | 3 | 85.4 | 85.4 |
| 2 | 84.8 | 84.8 | 84.8 | 2 | 84.8 | 84.8 |
| 1 | 84.2 | 84.2 | 84.2 | 1 | 84.2 | 84.2 |
| 0 | 83.6 | 83.6 | 83.6 | 0 | 83.6 | 83.6 |
| -1 | 83 | 83 | 83 | -1 | 83 | 83 |
| -2 | 82.4 | 82.4 | 82.4 | -2 | 82.4 | 82.4 |
| -3 | 81.8 | 81.8 | 81.8 | -3 | 81.8 | 81.8 |
| -4 | 81.2 | 81.2 | 81.2 | -4 | 81.2 | 81.2 |
| -5 | 80.6 | 80.6 | 80.6 | -5 | 80.6 | 80.6 |
| -6 | 80 | 80 | 80 | -6 | 80 | 80 |
| -7 | 79.4 | 79.4 | 79.4 | -7 | 79.4 | 79.4 |
| -8 | 78.8 | 78.8 | 78.8 | -8 | 78.8 | 78.8 |
| -9 | 78.2 | 78.2 | 78.2 | -9 | 78.2 | 78.2 |

Paper and Book Measure

| Writing Paper | Printing Paper |
|---------------------|---------------------|
| 24 sheets = 1 quire | 516 sheets = 1 ream |
| 20 quires = 1 ream | 2 reams = 1 bundle |
| | 51 bundles = 1 bale |

Regular Sizes of Printing Paper

| | | | | | |
|--------------------|----|----|----|-----|-----|
| For loop | 17 | X | 23 | 1/2 | 1/2 |
| Double Foolcap | 27 | X | 17 | | |
| Crown | 20 | X | 15 | | |
| Double Crown | 30 | X | 20 | | |
| Post | 19 | X | 15 | | |
| Double Post | 11 | X | 19 | 1/2 | |
| Double Large Post | — | 33 | X | 21 | |
| Sheet and 1/2 Post | 23 | X | 19 | | |
| Demy | 22 | X | 17 | | |
| Double Demy | — | 35 | X | 22 | |
| Musical Demy | 20 | X | 15 | 1/2 | |
| Medium | 23 | X | 18 | | |
| Royal | — | 25 | X | 20 | |
| Super Royal | 27 | X | 20 | | |
| Elephant | — | 28 | X | 23 | |
| Imperial | 30 | X | 22 | | |

Sizes of Printed Books

| | | | | | |
|------------------------|---|--------|---|--------|------|
| Demy 16mo | = | 5 1/2 | X | 4 1/2 | inch |
| Demy 18 " " | = | 5 1/2 | X | 3 1/2 | |
| Small cap Octavo (8vo) | = | 6 1/2 | X | 4 | |
| Crown 8vo | = | 7 1/2 | X | 5 | |
| Large Crown 8vo | = | 8 | X | 5 1/2 | |
| Large 8vo | = | 8 1/2 | X | 5 1/2 | |
| Medium 8vo | = | 9 1/2 | X | 6 | |
| Large 8vo | = | 10 1/2 | X | 6 1/2 | |
| Large 8vo | = | 11 1/2 | X | 7 | |
| Large cap Quarto (4to) | = | 8 1/2 | X | 6 1/2 | |
| Crown 4to | = | 10 | X | 7 1/2 | |
| Demy 4to | = | 12 1/2 | X | 8 1/2 | |
| Royal 4to | = | 13 1/2 | X | 10 | |
| Large 4to | = | 15 | X | 11 | |
| Crown Folio | = | 15 | X | 20 | |
| Demy Folio | = | 17 1/2 | X | 22 1/2 | |
| Large Folio | = | 20 | X | 24 | |
| Musical | = | 14 | X | 10 1/2 | |

Sizes of Type

All printers cast their type to one 11 height (type-high) which is 1 1/2 of the height

Sizes of Binding Paper

| | | | | |
|-----------------------|----|--------|----|--------|
| Emperor | 72 | X | 48 | inches |
| Antiquaria | — | 53 | X | 31 |
| Double Elephant | — | 40 | X | 26 |
| Grand Eagle | — | 41 | X | 28 |
| Atlas | — | 34 | X | 26 |
| Columber | — | 34 1/2 | X | 23 |
| Imperial | — | 30 | X | 22 |
| Elephant | — | 28 | X | 23 |
| Cartridge | — | 26 | X | 21 |
| Super Royal | — | 27 | X | 19 |
| Royal | — | 24 | X | 19 |
| Medium | — | 22 | X | 17 |
| Large Post | — | 21 | X | 16 1/2 |
| Copy or Draft | — | 20 | X | 16 |
| Large | — | 20 | X | 15 |
| Large Post | — | 20 | X | 15 1/2 |
| Large Post | — | 18 1/2 | X | 14 |
| Foolcap | — | 17 | X | 13 1/2 |
| Sheet and 1/2 Foolcap | — | 22 | X | 13 1/2 |
| Sheet and 1/2 Foolcap | — | 24 | X | 13 |
| Double Foolcap | — | 26 1/2 | X | 16 |
| Double Post | — | 30 | X | 19 |
| Double Large Post | — | 33 | X | 21 |
| Double Demy | — | 31 | X | 20 |
| Large | — | 16 1/2 | X | 13 |
| Post | — | 15 | X | 12 1/2 |

Sizes of Binding Paper

| | | | | | |
|-----------------|---|----|---|----|--------|
| Casings | — | 46 | X | 36 | inches |
| Double Imperial | — | 45 | X | 29 | |
| Elephant | — | 34 | X | 24 | |
| Double Elephant | — | 31 | X | 21 | |
| Imperial Cap | — | 29 | X | 22 | |
| Large Cap | — | 26 | X | 21 | |
| Large Cap | — | 24 | X | 19 | |
| Large Cap | — | 21 | X | 18 | |

English (14 point) 34 lines 680 letters—

Printing is the art of printing

Great Print (18 point) 27 lines 430 letters

Printing is the art

Double Print (22 point) 22 lines 280 letters

Printing is

METRIC WEIGHTS AND MEASURES

Double the several tables for

THE UNITED STATES

the weights and measures of the U.S.A. the same as the old Great Britain with

ton of 2000 lb.
10 place of the Gal.
two tons there.
lb., the short ton

| | | |
|---------------|-----------------|----------------|
| 10 grammes | = 1 dekagramm | = 5.6438 drams |
| 10 dekagramm | = 1 hecogramm | = 3.5974 oz |
| 10 hecogramm | = 1 kilogram | = 16.04623 lb |
| 10 kil gramm | = 1 myriagramm | = 22.04623 lb |
| 10 myriagramm | = 1 quintal (q) | = 1.1034 cwt |
| 10 quintals | = 1 centner (c) | = 0.90718 c |

3.—MEASURES OF CAPACITY

| | | |
|----------------|-------------------|-------------------|
| 10 millilitres | = 1 centilitre | = 0.0704 gill |
| 10 centilitres | = 1 decilitre (d) | = 0.17598 pint |
| 10 decilitres | = 1 litre (l) | = 2.20462 pints |
| 10 litres | = 1 dekalitre | = 2.20462 kals |
| 10 dekalitres | = 1 hectolitre | = 2.20462 bushels |

| | | |
|------------------------|------------------|----------------|
| 1 cubic centim (water) | = 1 gram | = 0.0000157 cu |
| 1 cubic metre | = 1 kilogram | = 0.001136 cu |
| 1 cubic metre | = 1000 kilograms | = 1.35974 cu |

4.—MEASURES OF LENGTH

| | | |
|----------------|----------------|----------------|
| 10 millimetres | = 1 centimetre | = 0.03937 inch |
| 10 centimetres | = 1 decimetre | = 0.3937 inch |
| 10 decimetres | = 1 metre | = 39.37 inch |

| | |
|-----------------|----------------------|
| 1 inch | = 2.54 centimetres |
| 1 foot | = 30.48 centimetres |
| 1 yard | = 91.44 centimetres |
| 1 mile | = 1.60934 kilometres |
| 1 nautical mile | = 1.852 kilometres |
| 1 fathom | = 1.8288 metres |
| 1 cable | = 184.4 metres |
| 1 league | = 3 miles |
| 1 day | = 24 hours |
| 1 week | = 7 days |
| 1 month | = 30 days |
| 1 year | = 365 days |
| 1 century | = 100 years |
| 1 millennium | = 1000 years |

| | |
|-------------------|---------------------------|
| 1 cubic foot | = 7.48052 gallons |
| 1 cubic yard | = 201.974 gallons |
| 1 cubic metre | = 264.172 gallons |
| 1 cubic kilometre | = 264.172 million gallons |

| | |
|--------------------|-------------------------------|
| 1 cubic foot | = 7.48052 gallons |
| 1 cubic yard | = 201.974 gallons |
| 1 cubic metre | = 264.172 gallons |
| 1 cubic kilometre | = 264.172 million gallons |
| 1 cubic mile | = 264.172 billion gallons |
| 1 cubic league | = 264.172 trillion gallons |
| 1 cubic day | = 264.172 quadrillion gallons |
| 1 cubic week | = 264.172 quintillion gallons |
| 1 cubic month | = 264.172 sextillion gallons |
| 1 cubic year | = 264.172 septillion gallons |
| 1 cubic century | = 264.172 octillion gallons |
| 1 cubic millennium | = 264.172 nonillion gallons |

FOREIGN WEIGHTS AND MEASURES

The *Metric System* has been adopted by the whole of Europe (except Great Britain and Russia) and is permanent in all countries.

China.

| | | |
|-------------|---|--------------|
| Tael weight | = | 1 33 oz. |
| Catty | = | 1 33 lb |
| Picul | = | 133 33 lb. |
| Ts'nn | = | 1 41 inches. |
| Chi'ih | = | 1 175 ft 1 |
| Chang | = | 11 75 feet |
| Li | = | 2,115 feet. |

Surface

| | | |
|--------------|---|-------------------|
| 1 sq verahok | = | 3 0625 sq inches. |
| 1 sq arshin | = | 3 4444 sq feet |
| 1 sq sajen | = | 5 4444 sq yards |
| 1 sq verst | = | 0 4394 sq miles. |

Height

| | | |
|------------|---|----------------------|
| 1 volotnik | = | 65 8306 grains |
| 3 volotnik | = | 1 loth. |
| 32 loth | = | 1 funt. |
| 40 funt | = | 1 pood (36 1128 lb.) |
| 10 poods | = | 1 berkovatz. |

Capacity

| | | |
|-----------|---|--------------|
| 1 tcharka | = | 0 1164 pint. |
|-----------|---|--------------|

Chang = 2,675 lb

Turkey

| | | | | |
|--------|---|-----------|---|----------------|
| Oke | = | 400 drams | = | 2 8264 lb. |
| Matman | = | 6 okes | = | 16 958 lb |
| Canlar | = | 44 okes | = | 124 3616 lb |
| Chehl | = | 195 okas | = | 551 148 lb |
| Kileh | = | " " | = | 0 9120 bushel. |

Greece

| | | | | | |
|---------|---|----------|-----------|---|---------|
| ocque | = | 2 24 lb. | 1 livre | = | 1 1 lb |
| quintal | = | 132 2 lb | 1 drachma | = | 0 11 oz |

Japan and Formosa.

The Metric System from July 1, 1904

Old Japanese Measures

| | | |
|-------------------|---|-------------------|
| Phaku (10 Sun) | = | 11 931 inches |
| Ken (6 Phaku) | = | 1 9884 3 aras |
| Ri | = | 2 4403 miles |
| Square ri | = | 5 5553 sq miles. |
| Cho | = | 5 4 3 chains |
| Square cho | = | 2 4507 acres |
| Tsubo | = | 3 95 8 sq yarila. |
| Li'uid koku | = | 37 7033 gallons |
| Dry koku | = | 4 9649 bushels. |
| Koku of capacity | = | 0 1 1 m |
| Liquid sho | = | 1 5881 quarts |
| Dry sho | = | 0 1985 pecks. |
| Ku (160 Monme) | = | 1 3128 lb |
| Kwan (1000 Monme) | = | 8 2673 lb |

Russia.

The standard of length is the *Sajen* which is equal to seven British feet the standard of weight is the *Funt* = 0 9022 lb

Length.

| | | |
|------------|---|--------------------------------|
| 16 verahok | = | 1 arshin. |
| 3 arshin | = | 2 sajen |
| 500 sajen | = | 1 verst. |
| 1 verst | = | 1 166 66 yards (0 66288 mile). |

| | | |
|------------------|---|---------------------|
| Scottish acre | = | 6 150 4 sq yards |
| Conningsham acre | = | 6 350 sq yards |
| Irish acre | = | 7 840 sq yards |
| Cheshire acre | = | 10 240 sq yards |
| Hide | = | 120 acres (average) |
| Yard of land | = | 1/2 of a hide |

Old French Measures

| | | |
|--|---|--|
| Talmud Cubit | = | 21 914 in., Egyptian Cul |
| Cubit of Ezekiel | = | 25 16 in., Reed = 25 6 in |
| Kikkar (Alexandrian talent) | = | 30 minas of shekels. |
| Shekel | = | 1/2 oz., of 8 gerah, or (Shekel of 1 Sanctuary) of 2 beka, 4 reba, 20 gerah. |
| Bath (Biblical), Ephah (corn) of 6 hin, 18 cab | = | 6 477 British gallons. |
| Cor or Homer (10 ephas) | = | 8 351 bus |

[illegible]

PRESENT VALUE OF A LEASE FREEHOLD ESTATE OR ANNUITY

| Years | 3% | 4% | 5% | 6% | 7% | Years | 3% | 4% | 5% | 6% | 7% | | | | | |
|-------|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|
| 1 | 49 | 48 | 48 | 48 | 47 | 44 | 24 | 25 | 20 | 55 | 17 | 66 | 15 | 38 | 13 | 56 |
| 2 | 57 | 56 | 55 | 54 | 53 | 45 | 24 | 25 | 20 | 72 | 27 | 77 | 23 | 46 | 23 | 63 |
| 3 | 61 | 60 | 59 | 58 | 57 | 46 | 24 | 27 | 20 | 88 | 27 | 88 | 25 | 51 | 23 | 65 |
| 4 | 63 | 62 | 61 | 60 | 59 | 47 | 25 | 28 | 21 | 04 | 27 | 98 | 25 | 59 | 23 | 69 |
| 5 | 64 | 63 | 62 | 61 | 60 | 48 | 25 | 28 | 21 | 20 | 28 | 08 | 25 | 65 | 23 | 73 |
| 6 | 65 | 64 | 63 | 62 | 61 | 49 | 25 | 50 | 21 | 34 | 28 | 17 | 25 | 71 | 23 | 77 |
| 7 | 65 | 64 | 63 | 62 | 61 | 50 | 25 | 73 | 21 | 48 | 28 | 26 | 25 | 76 | 23 | 80 |
| 8 | 66 | 65 | 64 | 63 | 62 | 51 | 25 | 95 | 21 | 62 | 28 | 34 | 25 | 81 | 23 | 83 |
| 9 | 67 | 66 | 65 | 64 | 63 | 52 | 26 | 16 | 21 | 75 | 28 | 41 | 25 | 86 | 23 | 85 |
| 10 | 67 | 66 | 65 | 64 | 63 | 53 | 26 | 37 | 21 | 87 | 28 | 49 | 25 | 90 | 23 | 89 |
| 11 | 68 | 67 | 66 | 65 | 64 | 54 | 26 | 58 | 21 | 99 | 28 | 56 | 25 | 95 | 23 | 91 |
| 12 | 69 | 68 | 67 | 66 | 65 | 55 | 26 | 77 | 22 | 11 | 28 | 63 | 25 | 99 | 23 | 94 |
| 13 | 69 | 68 | 67 | 66 | 65 | 56 | 26 | 96 | 22 | 22 | 28 | 70 | 26 | 03 | 23 | 96 |
| 14 | 70 | 69 | 68 | 67 | 66 | 57 | 27 | 15 | 22 | 32 | 28 | 76 | 26 | 06 | 23 | 98 |
| 15 | 70 | 69 | 68 | 67 | 66 | 58 | 27 | 33 | 22 | 43 | 28 | 82 | 26 | 10 | 24 | 00 |
| 16 | 71 | 70 | 69 | 68 | 67 | 59 | 27 | 50 | 22 | 53 | 28 | 87 | 26 | 13 | 24 | 02 |
| 17 | 71 | 70 | 69 | 68 | 67 | 60 | 27 | 67 | 22 | 62 | 28 | 93 | 26 | 16 | 24 | 04 |
| 18 | 72 | 71 | 70 | 69 | 68 | 61 | 27 | 84 | 22 | 71 | 28 | 98 | 26 | 19 | 24 | 05 |
| 19 | 72 | 71 | 70 | 69 | 68 | 62 | 28 | 00 | 22 | 80 | 29 | 03 | 25 | 22 | 24 | 07 |
| 20 | 73 | 72 | 71 | 70 | 69 | 63 | 28 | 15 | 22 | 89 | 29 | 07 | 26 | 24 | 24 | 08 |
| 21 | 73 | 72 | 71 | 70 | 69 | 64 | 28 | 30 | 22 | 97 | 29 | 12 | 26 | 26 | 24 | 10 |
| 22 | 74 | 73 | 72 | 71 | 70 | 65 | 28 | 45 | 23 | 04 | 29 | 16 | 26 | 29 | 24 | 11 |
| 23 | 74 | 73 | 72 | 71 | 70 | 66 | 28 | 59 | 23 | 12 | 29 | 20 | 26 | 31 | 24 | 13 |
| 24 | 75 | 74 | 73 | 72 | 71 | 67 | 28 | 73 | 23 | 19 | 29 | 24 | 26 | 33 | 24 | 15 |
| 25 | 75 | 74 | 73 | 72 | 71 | 68 | 28 | 87 | 23 | 26 | 29 | 27 | 26 | 35 | 24 | 15 |
| 26 | 76 | 75 | 74 | 73 | 72 | 69 | 29 | 00 | 23 | 33 | 29 | 31 | 26 | 37 | 24 | 17 |
| 27 | 76 | 75 | 74 | 73 | 72 | 70 | 29 | 12 | 23 | 39 | 29 | 34 | 26 | 38 | 24 | 18 |
| 28 | 77 | 76 | 75 | 74 | 73 | 71 | 29 | 24 | 23 | 45 | 29 | 37 | 26 | 40 | 24 | 17 |
| 29 | 77 | 76 | 75 | 74 | 73 | 72 | 29 | 36 | 23 | 51 | 29 | 40 | 26 | 41 | 24 | 17 |
| 30 | 78 | 77 | 76 | 75 | 74 | 73 | 29 | 48 | 23 | 57 | 29 | 43 | 26 | 43 | 24 | 18 |
| 31 | 78 | 77 | 76 | 75 | 74 | 74 | 29 | 59 | 23 | 63 | 29 | 46 | 26 | 44 | 24 | 19 |
| 32 | 79 | 78 | 77 | 76 | 75 | 75 | 29 | 70 | 23 | 68 | 29 | 48 | 26 | 45 | 24 | 19 |
| 33 | 79 | 78 | 77 | 76 | 75 | 76 | 29 | 81 | 23 | 73 | 29 | 51 | 26 | 47 | 24 | 20 |
| 34 | 80 | 79 | 78 | 77 | 76 | 77 | 29 | 91 | 23 | 78 | 29 | 53 | 26 | 48 | 24 | 21 |
| 35 | 81 | 80 | 79 | 78 | 77 | 78 | 30 | 01 | 23 | 82 | 29 | 55 | 26 | 49 | 24 | 21 |
| 36 | 81 | 80 | 79 | 78 | 77 | 79 | 30 | 10 | 23 | 87 | 29 | 57 | 26 | 50 | 24 | 22 |
| 37 | 82 | 81 | 80 | 79 | 78 | 80 | 30 | 20 | 23 | 91 | 29 | 59 | 26 | 51 | 24 | 22 |
| 38 | 82 | 81 | 80 | 79 | 78 | 81 | 30 | 30 | 24 | 11 | 29 | 68 | 26 | 55 | 24 | 24 |
| 39 | 83 | 82 | 81 | 80 | 79 | 82 | 31 | 00 | 24 | 27 | 29 | 75 | 26 | 58 | 24 | 25 |
| 40 | 83 | 82 | 81 | 80 | 79 | 83 | 31 | 32 | 24 | 40 | 29 | 80 | 26 | 60 | 24 | 26 |
| 41 | 83 | 82 | 81 | 80 | 79 | 84 | 31 | 60 | 24 | 50 | 29 | 85 | 26 | 62 | 24 | 27 |
| 42 | 84 | 83 | 82 | 81 | 80 | 85 | 33 | 33 | 25 | 00 | 30 | 00 | 26 | 66 | 24 | 28 |

THE ENGLISH MILE COMPARED WITH OTHER EUROPEAN MEASURES

| | | | | | | | | | | | |
|--|-----------------|--------------------|------------------|----------------------|----------------------|-------------------|------------------|-------------------|-------------------|-------------------|----------------|
| | I call h N m | Engl sh g cog M | Pre of Milton | E. German Gloss M | E. Asian V. Engl. | A. Amer. h. G. | P. t. h L. ro | N. Amer. M. G. | West Ind M. G. | East Ind M. G. | Other M. G. |
|--|-----------------|--------------------|------------------|----------------------|----------------------|-------------------|------------------|-------------------|-------------------|-------------------|----------------|

EXPECTATION OF LIFE.

The following table (based upon the Census of 1891 and deaths for 1910-11) is compiled as a supplement to the Registrar General's Annual Return, which refers to England and Wales only.

| AGE. | For 1,000,000 living THE NUMBER OF A. M. AT THE END OF EACH YEAR OF LIFE. | | MEAN AFTER-LIFETIME EXPECTATION OF LIFE. | | AGE. | For 1,000,000 living THE NUMBER OF A. M. AT THE END OF EACH YEAR OF LIFE. | | MEAN AFTER-LIFETIME EXPECTATION OF LIFE. | |
|------|--|-----------|---|---------|------|--|---------|---|---------|
| | Male. | Female. | Male. | Female. | | Male. | Female. | Male. | Female. |
| 0 | 1,000,000 | 1,000,000 | 51.50 | 55.35 | 53 | 613,135 | 653,897 | 18.22 | 20.79 |
| 1 | 879,559 | 902,339 | 57.51 | 60.31 | 54 | 601,935 | 654,610 | 17.55 | 19.58 |
| 2 | 849,444 | 873,522 | 58.53 | 61.28 | 55 | 590,120 | 644,775 | 16.89 | 18.87 |
| 3 | 838,091 | 861,976 | 58.32 | 61.09 | 56 | 577,062 | 634,363 | 16.24 | 18.17 |
| 4 | 831,235 | 855,063 | 57.70 | 60.38 | 57 | 564,540 | 623,350 | 15.61 | 17.41 |
| 5 | 826,276 | 850,055 | 57.12 | 59.94 | 58 | 552,742 | 611,725 | 14.98 | 16.80 |
| 6 | 822,238 | 845,976 | 56.42 | 59.22 | 59 | 542,265 | 599,421 | 14.37 | 16.14 |
| 7 | 818,976 | 842,678 | 55.64 | 58.46 | 60 | 532,103 | 586,599 | 13.78 | 15.45 |
| 8 | 816,345 | 840,012 | 54.82 | 57.64 | 61 | 522,253 | 573,051 | 13.19 | 14.81 |
| 9 | 814,205 | 837,828 | 53.96 | 56.79 | 62 | 512,713 | 558,798 | 12.62 | 14.20 |
| 10 | 812,414 | 835,983 | 53.08 | 55.91 | 63 | 503,507 | 543,844 | 12.07 | 13.58 |
| 11 | 810,844 | 834,345 | 52.18 | 55.02 | 64 | 494,673 | 528,212 | 11.52 | 12.96 |
| 12 | 809,375 | 832,791 | 51.27 | 54.12 | 65 | 486,122 | 511,876 | 10.99 | 12.37 |
| 13 | 807,907 | 831,222 | 50.37 | 53.22 | 66 | 477,859 | 494,770 | 10.47 | 11.77 |
| 14 | 806,351 | 829,556 | 49.46 | 52.31 | 67 | 469,543 | 476,795 | 9.96 | 11.19 |
| 15 | 804,645 | 827,744 | 48.57 | 51.44 | 68 | 461,311 | 457,843 | 9.47 | 10.61 |
| 16 | 802,758 | 825,768 | 47.68 | 50.56 | 69 | 453,545 | 437,865 | 8.99 | 10.02 |
| 17 | 800,681 | 823,643 | 46.80 | 49.69 | 70 | 446,206 | 416,875 | 8.53 | 9.53 |
| 18 | 798,445 | 821,439 | 45.93 | 48.83 | 71 | 439,279 | 394,951 | 8.09 | 9.09 |
| 19 | 796,031 | 819,159 | 45.07 | 47.96 | 72 | 432,732 | 372,229 | 7.66 | 8.61 |
| 20 | 793,435 | 816,812 | 44.21 | 47.10 | 73 | 426,518 | 348,877 | 7.25 | 8.15 |
| 21 | 790,673 | 814,405 | 43.37 | 46.23 | 74 | 420,595 | 324,048 | 6.86 | 7.71 |
| 22 | 787,778 | 811,930 | 42.53 | 45.37 | 75 | 414,949 | 300,900 | 6.49 | 7.29 |
| 23 | 784,768 | 809,389 | 41.68 | 44.51 | 76 | 409,533 | 276,590 | 6.14 | 6.89 |
| 24 | 781,707 | 806,789 | 40.84 | 43.66 | 77 | 404,324 | 252,250 | 5.80 | 6.51 |
| 25 | 778,699 | 804,126 | 40.00 | 42.80 | 78 | 400,377 | 228,095 | 5.49 | 6.11 |
| 26 | 775,587 | 801,395 | 39.16 | 41.94 | 79 | 396,619 | 204,202 | 5.19 | 5.81 |
| 27 | 772,403 | 798,582 | 38.32 | 41.09 | 80 | 393,035 | 180,863 | 4.90 | 5.49 |
| 28 | 769,123 | 795,672 | 37.48 | 40.24 | 81 | 389,699 | 158,402 | 4.64 | 5.20 |
| 29 | 765,735 | 792,660 | 36.65 | 39.39 | 82 | 386,464 | 137,168 | 4.39 | 4.92 |
| 30 | 762,244 | 789,536 | 35.81 | 38.54 | 83 | 383,339 | 117,461 | 4.15 | 4.67 |
| 31 | 758,652 | 786,390 | 34.98 | 37.70 | 84 | 380,375 | 99,458 | 3.93 | 4.44 |
| 32 | 754,974 | 783,209 | 34.16 | 36.86 | 85 | 377,578 | 81,240 | 3.72 | 4.22 |
| 33 | 751,207 | 779,981 | 33.33 | 36.03 | 86 | 374,905 | 63,810 | 3.51 | 3.99 |
| 34 | 747,357 | 776,692 | 32.50 | 35.19 | 87 | 372,329 | 46,114 | 3.33 | 3.74 |
| 35 | 743,421 | 773,335 | 31.71 | 34.37 | 88 | 369,840 | 29,074 | 3.15 | 3.52 |
| 36 | 739,403 | 769,901 | 30.90 | 33.55 | 89 | 367,449 | 13,612 | 3.00 | 3.34 |
| 37 | 735,314 | 766,390 | 30.11 | 32.73 | 90 | 365,168 | 7,641 | 2.87 | 3.18 |
| 38 | 731,157 | 762,800 | 29.34 | 31.91 | 91 | 362,930 | 2,055 | 2.76 | 2.99 |
| 39 | 726,934 | 759,133 | 28.53 | 31.10 | 92 | 360,742 | 15,733 | 2.67 | 2.83 |
| 40 | 722,647 | 755,391 | 27.74 | 30.30 | 93 | 358,610 | 2,527 | 2.60 | 2.68 |
| 41 | 718,297 | 751,582 | 26.97 | 29.50 | 94 | 356,538 | 8,277 | 2.53 | 2.54 |
| 42 | 713,884 | 747,706 | 26.20 | 28.70 | 95 | 354,520 | 5,820 | 2.43 | 2.46 |
| 43 | 709,409 | 743,768 | 25.43 | 27.91 | 96 | 352,560 | 4,022 | 2.32 | 2.36 |
| 44 | 704,872 | 739,769 | 24.67 | 27.12 | 97 | 350,654 | 2,665 | 2.18 | 2.22 |
| 45 | 699,284 | 735,713 | 23.92 | 26.34 | 98 | 348,808 | 1,753 | 2.02 | 2.08 |
| 46 | 693,647 | 731,600 | 23.18 | 25.56 | 99 | 347,028 | 1,108 | 1.84 | 1.93 |
| 47 | 687,962 | 727,432 | 22.45 | 24.79 | 100 | 345,310 | 674 | 1.64 | 1.76 |
| 48 | 682,229 | 723,207 | 21.72 | 24.02 | 101 | 343,650 | 392 | 1.40 | 1.55 |
| 49 | 676,449 | 718,934 | 21.00 | 23.26 | 102 | 342,044 | 215 | 1.20 | 1.42 |
| 50 | 670,622 | 714,604 | 20.29 | 22.51 | 103 | 340,490 | 111 | 1.00 | 1.29 |
| 51 | 664,748 | 710,217 | 19.59 | 21.76 | 104 | 338,985 | 51 | .87 | 1.16 |
| 52 | 658,827 | 705,772 | 18.90 | 21.02 | 105 | 337,528 | 22 | .75 | 1.05 |

REPAYMENT OF PUBLIC LOANS

| Score. | 3 per Ct | 4 per Ct | 4 1/2 per Ct | 5 per Ct | 5 1/2 per Ct | 6 per Ct | 6 1/2 per Ct |
|--------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|
| 5 | £ 1 2 | £ 1 3 | £ 1 4 | £ 1 5 | £ 1 6 | £ 1 7 | £ 1 8 |
| 10 | 22 2 12 1/2 | 22 3 13 1/2 | 22 4 14 1/2 | 22 5 15 1/2 | 22 6 16 1/2 | 22 7 17 1/2 | 22 8 18 1/2 |
| 15 | 12 0 5 1/2 | 12 1 6 1/2 | 12 2 7 1/2 | 12 3 8 1/2 | 12 4 9 1/2 | 12 5 10 1/2 | 12 6 11 1/2 |
| 20 | 8 13 7 1/2 | 8 14 8 1/2 | 8 15 9 1/2 | 8 16 10 1/2 | 8 17 11 1/2 | 8 18 12 1/2 | 8 19 13 1/2 |
| 25 | 6 3 4 1/2 | 6 4 5 1/2 | 6 5 6 1/2 | 6 6 7 1/2 | 6 7 8 1/2 | 6 8 9 1/2 | 6 9 10 1/2 |
| 30 | 5 2 9 | 5 3 10 | 5 4 11 | 5 5 12 | 5 6 13 | 5 7 14 | 5 8 15 |
| 35 | 5 0 0 | 5 1 1 | 5 2 2 | 5 3 3 | 5 4 4 | 5 5 5 | 5 6 6 |
| 40 | 4 13 7 1/2 | 4 14 8 1/2 | 4 15 9 1/2 | 4 16 10 1/2 | 4 17 11 1/2 | 4 18 12 1/2 | 4 19 13 1/2 |
| 45 | 4 8 11 | 4 9 12 | 4 10 13 | 4 11 14 | 4 12 15 | 4 13 16 | 4 14 17 |
| 50 | 4 5 3 1/2 | 4 6 4 1/2 | 4 7 5 1/2 | 4 8 6 1/2 | 4 9 7 1/2 | 4 10 8 1/2 | 4 11 9 1/2 |
| 55 | 4 2 5 1/2 | 4 3 6 1/2 | 4 4 7 1/2 | 4 5 8 1/2 | 4 6 9 1/2 | 4 7 10 1/2 | 4 8 11 1/2 |
| 60 | 4 0 2 1/2 | 4 1 3 1/2 | 4 2 4 1/2 | 4 3 5 1/2 | 4 4 6 1/2 | 4 5 7 1/2 | 4 6 8 1/2 |
| 65 | 3 16 11 1/2 | 3 17 12 1/2 | 3 18 13 1/2 | 3 19 14 1/2 | 3 20 15 1/2 | 3 21 16 1/2 | 3 22 17 1/2 |
| 70 | 3 15 11 | 3 16 12 | 3 17 13 | 3 18 14 | 3 19 15 | 3 20 16 | 3 21 17 |
| 75 | 3 15 8 1/2 | 3 16 9 1/2 | 3 17 10 1/2 | 3 18 11 1/2 | 3 19 12 1/2 | 3 20 13 1/2 | 3 21 14 1/2 |
| 80 | 3 14 9 1/2 | 3 15 10 1/2 | 3 16 11 1/2 | 3 17 12 1/2 | 3 18 13 1/2 | 3 19 14 1/2 | 3 20 15 1/2 |

REDEMPTION OF CAPITAL
BY ANNUAL PAYMENTS

THE RULE OF THE ROAD

[illegible]

* Two steamships pass 19
GREEN to GREEN or RED to RED
Perfect safety—Co a head!

3 Two steamships crossing
If to your starboard RFD appear,
It is your duty to keep clear.
To act as Judgment says is proper —
To Port—or Starboard—Back or Stop her

But when upon your port is seen
A steamer's starboard light of
There's not so much for you to do
As GIVE to her what keeps time

Both in safety and in doubt
 Always keep a goal for you
 In danger with no room to
 Lose her—she is here—

SIMPLE INTEREST FROM DAY TO DAY

Showing the simple interest on £100 in years for 1 to 300 days at various rates per ann. %.

| Days. | One Quarter Per Cent | One Half Per Cent | One Per Cent | Two Per Cent | Tenant a Half Per Cent | Three Per Cent | Four Per Cent | Five Per Cent | 6 Per Cent |
|-------|----------------------------|----------------------|-----------------|-----------------|------------------------------|-------------------|------------------|------------------|---------------|
| | d | d | d | d | d | d | d | d | d |
| 1 | 0 164 | 0 329 | 0 658 | 1 315 | 1 644 | 1 973 | 2 630 | 3 288 | 3 945 |
| 2 | 0 329 | 0 658 | 1 315 | 2 630 | 3 288 | 3 945 | 5 260 | 6 575 | 7 890 |
| 3 | 0 493 | 0 986 | 1 973 | 3 945 | 4 934 | 5 918 | 7 890 | 9 863 | 11 835 |
| 4 | 0 658 | 1 315 | 2 630 | 5 260 | 6 575 | 7 890 | 10 521 | 13 151 | 15 781 |
| 5 | 0 822 | 1 644 | 3 288 | 6 575 | 8 219 | 9 863 | 13 151 | 16 436 | 19 066 |
| 6 | 0 986 | 1 973 | 3 945 | 7 890 | 9 863 | 11 835 | 15 781 | 19 726 | 23 065 |
| 7 | 1 151 | 2 301 | 4 603 | 9 863 | 11 835 | 13 808 | 18 411 | 23 014 | 27 616 |
| 8 | 1 315 | 2 630 | 5 260 | 10 521 | 13 151 | 15 781 | 20 741 | 26 301 | 31 360 |
| 9 | 1 479 | 2 959 | 5 918 | 11 835 | 14 795 | 17 733 | 23 071 | 29 589 | 35 307 |
| 10 | 1 644 | 3 288 | 6 575 | 13 151 | 16 438 | 19 726 | 26 301 | 33 877 | 39 459 |
| 20 | 3 288 | 6 575 | 13 151 | 26 301 | 32 877 | 39 459 | 52 603 | 65 753 | 78 904 |
| 30 | 4 934 | 9 863 | 19 726 | 39 459 | 49 315 | 59 178 | 78 904 | 98 630 | 118 356 |
| 40 | 6 575 | 13 151 | 26 301 | 52 603 | 65 753 | 78 904 | 105 205 | 132 507 | 159 806 |
| 50 | 8 219 | 16 438 | 32 877 | 65 753 | 82 192 | 98 630 | 131 507 | 164 384 | 197 259 |
| 60 | 9 863 | 19 726 | 39 459 | 78 904 | 98 630 | 118 356 | 157 808 | 197 259 | 236 710 |
| 70 | 11 507 | 23 014 | 46 027 | 92 055 | 115 068 | 138 080 | 184 110 | 230 137 | 276 164 |
| 80 | 13 151 | 26 301 | 52 603 | 105 205 | 131 507 | 157 808 | 210 411 | 263 014 | 315 448 |
| 90 | 14 795 | 29 589 | 59 178 | 118 356 | 147 945 | 177 534 | 236 711 | 295 800 | 355 088 |
| 100 | 16 438 | 32 877 | 65 753 | 131 507 | 164 384 | 197 259 | 263 014 | 328 707 | 394 521 |
| 200 | 32 877 | 65 753 | 131 507 | 263 014 | 328 707 | 394 521 | 526 027 | 657 534 | 789 041 |
| 300 | 49 315 | 98 630 | 197 259 | 394 521 | 493 151 | 591 781 | 789 041 | 986 301 | 1183 561 |

A TABLE OF THE NUMBER OF DAYS FROM ANY DAY IN ONE MONTH TO THE SAME IN ANY OTHER MONTH IN ORDINARY YEARS.

| | Jan | Feb | Mar | April | May | June | July | Aug | Sept. | Oct. | Nov | Dec |
|-----------|-----|-----|-----|-------|-----|------|------|-----|-------|------|-----|-----|
| January | 305 | 31 | 59 | 90 | 120 | 151 | 181 | 211 | 243 | 273 | 304 | 334 |
| February | 334 | 305 | 58 | 59 | 89 | 120 | 150 | 181 | 211 | 242 | 272 | 303 |
| March | 306 | 337 | 305 | 31 | 61 | 91 | 122 | 153 | 184 | 214 | 245 | 275 |
| April | 275 | 306 | 334 | 305 | 30 | 61 | 91 | 122 | 153 | 183 | 214 | 244 |
| May | 245 | 276 | 304 | 335 | 305 | 31 | 61 | 92 | 123 | 153 | 184 | 214 |
| June | 214 | 245 | 273 | 304 | 334 | 305 | 30 | 61 | 91 | 122 | 153 | 183 |
| July | 184 | 215 | 243 | 274 | 304 | 335 | 305 | 31 | 62 | 92 | 123 | 153 |
| August | 153 | 184 | 212 | 243 | 273 | 304 | 334 | 305 | 31 | 61 | 92 | 122 |
| September | 122 | 153 | 181 | 212 | 242 | 273 | 303 | 334 | 305 | 31 | 61 | 91 |
| October | 91 | 122 | 151 | 182 | 211 | 242 | 273 | 304 | 335 | 305 | 31 | 91 |
| November | 61 | 92 | 120 | 151 | 181 | 212 | 242 | 273 | 304 | 334 | 305 | 31 |
| December | 31 | 62 | 90 | 121 | 151 | 182 | 211 | 243 | 274 | 304 | 335 | 305 |

TABLE OF INCOME OR WAGES

| Per Year | Per Month | Per Week | Per Day | Per Year | Per Month | Per Week | Per Day | Per Year | Per Month | Per Week | Per Day |
|-------------|--------------|-------------|------------|-------------|--------------|-------------|------------|-------------|--------------|-------------|------------|
| £ 1 | 10 | 2 | 0 10 | £ 1 | 10 | 2 | 0 10 | £ 1 | 10 | 2 | 0 10 |
| 10 | 100 | 20 | 1 0 | 10 | 100 | 20 | 1 0 | 10 | 100 | 20 | 1 0 |
| 20 | 200 | 40 | 2 0 | 20 | 200 | 40 | 2 0 | 20 | 200 | 40 | 2 0 |
| 30 | 300 | 60 | 3 0 | 30 | 300 | 60 | 3 0 | 30 | 300 | 60 | 3 0 |
| 40 | 400 | 80 | 4 0 | 40 | 400 | 80 | 4 0 | 40 | 400 | 80 | 4 0 |
| 50 | 500 | 100 | 5 0 | 50 | 500 | 100 | 5 0 | 50 | 500 | 100 | 5 0 |
| 60 | 600 | 120 | 6 0 | 60 | 600 | 120 | 6 0 | 60 | 600 | 120 | 6 0 |
| 70 | 700 | 140 | 7 0 | 70 | 700 | 140 | 7 0 | 70 | 700 | 140 | 7 0 |
| 80 | 800 | 160 | 8 0 | 80 | 800 | 160 | 8 0 | 80 | 800 | 160 | 8 0 |
| 90 | 900 | 180 | 9 0 | 90 | 900 | 180 | 9 0 | 90 | 900 | 180 | 9 0 |
| 100 | 1000 | 200 | 10 0 | 100 | 1000 | 200 | 10 0 | 100 | 1000 | 200 | 10 0 |

COMPOUND INTEREST TABLES

TABLE I—SHOWING THE SUM TO WHICH AN ANNUITY OF £1 ACCUMULATING AT COMPOUND INTEREST WILL AMOUNT IN FROM ONE TO FIFTY YEARS AT VARIOUS RATES

| Yr | Per Cent | Per Cent | Per Cent | Per Cent | Per Cent | Per Cent |
|----|----------|----------|----------|----------|----------|----------|
| 1 | 1 000 | 1 000 | 1 000 | 1 000 | 1 000 | 1 000 |
| 2 | 2 045 | 2 030 | 2 035 | 2 040 | 2 045 | 2 050 |
| 3 | 3 076 | 3 061 | 3 106 | 3 122 | 3 137 | 3 153 |
| 4 | 4 153 | 4 184 | 4 215 | 4 246 | 4 277 | 4 308 |
| 5 | 5 285 | 5 309 | 5 362 | 5 386 | 5 410 | 5 434 |
| 6 | 6 488 | 6 468 | 6 550 | 6 574 | 6 598 | 6 622 |
| 7 | 7 767 | 7 762 | 7 779 | 7 796 | 7 813 | 7 830 |
| 8 | 9 135 | 9 130 | 9 150 | 9 167 | 9 184 | 9 201 |
| 9 | 10 595 | 10 590 | 10 610 | 10 627 | 10 644 | 10 661 |
| 10 | 12 150 | 12 145 | 12 165 | 12 182 | 12 199 | 12 216 |
| 11 | 13 805 | 13 800 | 13 820 | 13 837 | 13 854 | 13 871 |
| 12 | 15 565 | 15 560 | 15 580 | 15 597 | 15 614 | 15 631 |
| 13 | 17 435 | 17 430 | 17 450 | 17 467 | 17 484 | 17 501 |
| 14 | 19 410 | 19 405 | 19 425 | 19 442 | 19 459 | 19 476 |
| 15 | 21 495 | 21 490 | 21 510 | 21 527 | 21 544 | 21 561 |
| 16 | 23 695 | 23 690 | 23 710 | 23 727 | 23 744 | 23 761 |
| 17 | 26 005 | 26 000 | 26 020 | 26 037 | 26 054 | 26 071 |
| 18 | 28 530 | 28 525 | 28 545 | 28 562 | 28 579 | 28 596 |
| 19 | 31 175 | 31 170 | 31 190 | 31 207 | 31 224 | 31 241 |
| 20 | 33 945 | 33 940 | 33 960 | 33 977 | 33 994 | 34 011 |
| 21 | 36 845 | 36 840 | 36 860 | 36 877 | 36 894 | 36 911 |
| 22 | 39 870 | 39 865 | 39 885 | 39 902 | 39 919 | 39 936 |
| 23 | 43 025 | 43 020 | 43 040 | 43 057 | 43 074 | 43 091 |
| 24 | 46 315 | 46 310 | 46 330 | 46 347 | 46 364 | 46 381 |
| 25 | 49 735 | 49 730 | 49 750 | 49 767 | 49 784 | 49 801 |
| 26 | 53 290 | 53 285 | 53 305 | 53 322 | 53 339 | 53 356 |
| 27 | 56 985 | 56 980 | 56 999 | 57 016 | 57 033 | 57 050 |
| 28 | 60 825 | 60 820 | 60 839 | 60 856 | 60 873 | 60 890 |
| 29 | 64 815 | 64 810 | 64 829 | 64 846 | 64 863 | 64 880 |
| 30 | 68 960 | 68 955 | 68 974 | 68 991 | 69 008 | 69 025 |
| 31 | 73 265 | 73 260 | 73 279 | 73 296 | 73 313 | 73 330 |
| 32 | 77 735 | 77 730 | 77 749 | 77 766 | 77 783 | 77 800 |
| 33 | 82 375 | 82 370 | 82 389 | 82 406 | 82 423 | 82 440 |
| 34 | 87 190 | 87 185 | 87 204 | 87 221 | 87 238 | 87 255 |
| 35 | 92 185 | 92 180 | 92 199 | 92 216 | 92 233 | 92 250 |
| 36 | 97 365 | 97 360 | 97 379 | 97 396 | 97 413 | 97 430 |
| 37 | 102 735 | 102 730 | 102 749 | 102 766 | 102 783 | 102 800 |
| 38 | 108 290 | 108 285 | 108 304 | 108 321 | 108 338 | 108 355 |
| 39 | 114 035 | 114 030 | 114 049 | 114 066 | 114 083 | 114 100 |
| 40 | 119 975 | 119 970 | 119 989 | 119 996 | 120 013 | 120 030 |
| 41 | 126 115 | 126 110 | 126 129 | 126 146 | 126 163 | 126 180 |
| 42 | 132 460 | 132 455 | 132 474 | 132 491 | 132 508 | 132 525 |
| 43 | 139 015 | 139 010 | 139 029 | 139 046 | 139 063 | 139 080 |
| 44 | 145 785 | 145 780 | 145 799 | 145 816 | 145 833 | 145 850 |
| 45 | 152 775 | 152 770 | 152 789 | 152 806 | 152 823 | 152 840 |
| 46 | 159 990 | 159 985 | 159 999 | 160 016 | 160 033 | 160 050 |
| 47 | 167 435 | 167 430 | 167 449 | 167 466 | 167 483 | 167 500 |
| 48 | 175 115 | 175 110 | 175 129 | 175 146 | 175 163 | 175 180 |
| 49 | 183 035 | 183 030 | 183 049 | 183 066 | 183 083 | 183 100 |
| 50 | 191 190 | 191 185 | 191 199 | 191 216 | 191 233 | 191 250 |

TABLE II—SHOWING THE AMOUNT WHICH £1 ACCUMULATING AT COMPOUND INTEREST WILL REACH IN FROM ONE TO FIFTY YEARS AT VARIOUS RATES

| Yr | Per Cent | Per Cent | Per Cent | Per Cent | Per Cent | Per Cent |
|----|----------|----------|----------|----------|----------|----------|
| 1 | 1 0250 | 1 0300 | 1 0350 | 1 0400 | 1 0450 | 1 0500 |
| 2 | 1 0506 | 1 0609 | 1 0712 | 1 0816 | 1 0920 | 1 1025 |
| 3 | 1 0769 | 1 0927 | 1 1087 | 1 1249 | 1 1412 | 1 1576 |

Field n. Ft. Hon. William Stevens P.C. former
Canadian Minister of Finance aged 80—
Jan 22.
Finlay Robert Eannatryne 1st Vice 18

Horne General Henry Sinclair 1st Baron G.
1855-1928.
Hutchinson Sir Sydney Hutton Cooper for
Dire for General of Telegraphs in India
76—Jan 20.
Hutchinson Sir George Aitken Clark 1
Unionist M.P. for North Midlothian aged
—Dec 22 1928
Irons de Sir Henry Ray K.C.M.G. experier
diplomat aged 69—April 26
Jackson Sir Frederick John K.C.M.G.
former Governor
Jan 22
Jones Llewellyn Archer Atherley K.C., J.
of the Mayor and City of London Cc
aged 18—June 15.
Kepp Hon Sir Edward K.C.M.G. Canada
War Minister in London during war aged
—April 12
Kennedy Sir Alexander B. 1851-1928

Fowler Ellen T. 1857-1928 (Hon. Mrs. Felt n.)

Gasquet Carl al Fran is A. d. 1. Prefect of
Vati an Archt es aged 82—April 5
Gallie Sir John former Chairman of Local
County C. 18 aged 57—Sept 14
Gibson Major-General Hon Sir John Monson
K.C. K.C.M.G. 1851-1928
Ontario age
Gipin Percy
aged 70—Nov
Glyn Ingham
former Bist
Nov 24 1928
Goodall Edith
dore Art is Wertworth former lawn tennis
champion aged 60—Apr 30 1928
Gouin Hon Sir Homer K.C.M.G. Lieutenant
Governor of Quebec aged 69—March 28
Graham Brigadier Malise 1850 former Army
cricketer aged 59—Aug 12

Hauteville Sir Ralph architect who designed Lor
County Hall aged 50—Jan 25
Lambourne Rt Hon Mark Lockwood Esq
former M.P. and horticulturist aged 1
Dec 26 1928
Lanckester Sir Edwin Ray K.C.B. f
eminet stic 1st aged 82—Aug 25
Lees Dr Harrington Clare Archbishop
Melbourne aged 58—Jan 20
Lehmann Rudolph Chambers oars
journalist humorist and politician
71—Jan. 22

Hauteville Sir Ralph architect who designed Lor
County Hall aged 50—Jan 25
Lambourne Rt Hon Mark Lockwood Esq
former M.P. and horticulturist aged 1
Dec 26 1928
Lanckester Sir Edwin Ray K.C.B. f
eminet stic 1st aged 82—Aug 25
Lees Dr Harrington Clare Archbishop
Melbourne aged 58—Jan 20
Lehmann Rudolph Chambers oars
journalist humorist and politician
71—Jan. 22

Hauteville Sir Ralph architect who designed Lor
County Hall aged 50—Jan 25
Lambourne Rt Hon Mark Lockwood Esq
former M.P. and horticulturist aged 1
Dec 26 1928
Lanckester Sir Edwin Ray K.C.B. f
eminet stic 1st aged 82—Aug 25
Lees Dr Harrington Clare Archbishop
Melbourne aged 58—Jan 20
Lehmann Rudolph Chambers oars
journalist humorist and politician
71—Jan. 22

Hauteville Sir Ralph architect who designed Lor
County Hall aged 50—Jan 25
Lambourne Rt Hon Mark Lockwood Esq
former M.P. and horticulturist aged 1
Dec 26 1928
Lanckester Sir Edwin Ray K.C.B. f
eminet stic 1st aged 82—Aug 25
Lees Dr Harrington Clare Archbishop
Melbourne aged 58—Jan 20
Lehmann Rudolph Chambers oars
journalist humorist and politician
71—Jan. 22

Hauteville Sir Ralph architect who designed Lor
County Hall aged 50—Jan 25
Lambourne Rt Hon Mark Lockwood Esq
former M.P. and horticulturist aged 1
Dec 26 1928
Lanckester Sir Edwin Ray K.C.B. f
eminet stic 1st aged 82—Aug 25
Lees Dr Harrington Clare Archbishop
Melbourne aged 58—Jan 20
Lehmann Rudolph Chambers oars
journalist humorist and politician
71—Jan. 22

Hauteville Sir Ralph architect who designed Lor
County Hall aged 50—Jan 25
Lambourne Rt Hon Mark Lockwood Esq
former M.P. and horticulturist aged 1
Dec 26 1928
Lanckester Sir Edwin Ray K.C.B. f
eminet stic 1st aged 82—Aug 25
Lees Dr Harrington Clare Archbishop
Melbourne aged 58—Jan 20
Lehmann Rudolph Chambers oars
journalist humorist and politician
71—Jan. 22

Hauteville Sir Ralph architect who designed Lor
County Hall aged 50—Jan 25
Lambourne Rt Hon Mark Lockwood Esq
former M.P. and horticulturist aged 1
Dec 26 1928
Lanckester Sir Edwin Ray K.C.B. f
eminet stic 1st aged 82—Aug 25
Lees Dr Harrington Clare Archbishop
Melbourne aged 58—Jan 20
Lehmann Rudolph Chambers oars
journalist humorist and politician
71—Jan. 22

THE BRITISH ISLES

THE KING AND QUEEN—(1928) Nov. 4,
Queen of Spain and her daughters luncheon with

necessary sea air. By Feb. 4 the doctor reported that His Majesty continued to gain strength slowly and had sat up and taken

lotted in favor of immediate Channel Tunnel plans, unopposed. At length, I paid EW

WINTAKER'S ALMANACK, 1930.

of Woolwich Arsenal found later near crashed aeroplane 14
 air mail from India arrived at London 24
 aeroplane, piloted by Capt. J. G. Lamb
 with Flight-Lieut. N. B.

to city
 French
 22nd
 is complet
 north Wes
 June

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Bourget. 17
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 8 m
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 10 miles
 1 while
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ard, Maine, in
 althunder 9 They landed near 10
 owing to shortage of petrol
 Australia

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 Karachi
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 130 miles
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 creek 20
 Zepplin 1st
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 mail serv
 12 killed.

CRIMES AND TRIALS —(1928) IN

High Council of Salvation Army decided to ask General Booth to retire but to retain his title and honours. 10 General Booth having declined the request, was a judicial point by 55 votes to 8. 18 Commissioner Haynes, one of High Council leaders collapsed and died at Walsby on learning that Interim Injunction

gave Unionists 37 members and major over all other parties. 20 New Ireland Parliament opened Capt. Monahan being elected Speaker June 2 Nationalists elected to Northern Ireland July 12 Italian car won Irish Grand motor race in Phoenix Park 13 Italy

Council met at Lugano and was welcomed by M. Briand. Council discussed rupture of Crowns appeal against decision that betting tax was not payable on bets made with Stadiums

OTHER COUNTRIES

(1928) Nov 3 Chinese pirates held up British vessel after she left Hankow killing one man and locking passengers cabins. 8 Java

versity for a year owing to recent student riots. 21 Duke and Duchess of York attended wedding at Oslo of Crown Prince of Norway and Princess Martha of Sweden. 24 Italian elections

French judge shot but not fatally, in his
 room at Paris by Alsatian

Feb 24 A new committee of
 Germany and the Allies had reached some

showing an English w
 front

and 1 Howard 26
 League of Nations 28
 Cup beating United Sta
 in Paris 29 New 1 and
 Premier met Aug 2
 voted confidence in new
 each overturned near
 men being killed and sev
 caused considerable dan
 Paris at Havre Sept 3 was
 Paris to Dieppe crashed

In L
 of d
 Aral

| | | | |
|---------------------------|-------------------------------------|-------------------------|-----------------|
| LINCOLNSH. HDCT 1 mile | GRAND NATIONAL 2 m. 1 f. 40 yds. | CITY & SUBURBAN 1 m. | KEMPTON JUBILEE |
|---------------------------|-------------------------------------|-------------------------|-----------------|

THE TURF IN 1929

COUNTY CHAMPIONSHIP TABLE 1929.

| County | Played | Won | Lost | Drawn | Wicket batting | Lost wicket batting | No result | 1 to 14 | 15 and over |
|-----------------|--------|-----|------|-------|----------------|---------------------|-----------|---------|-------------|
| Nottingham | 26 | 14 | 8 | 4 | 0 | 0 | 0 | 158 | |
| Leicestershire | 26 | 13 | 9 | 4 | 0 | 0 | 0 | 145 | |
| Yorkshire | 26 | 12 | 10 | 4 | 0 | 0 | 0 | 140 | |
| Gloucestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 140 | |
| Essex | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 140 | |
| Middlesex | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Worcestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Derbyshire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Leicestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Leicestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Leicestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Leicestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Leicestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Leicestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Leicestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Leicestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |
| Leicestershire | 26 | 12 | 9 | 5 | 0 | 0 | 0 | 135 | |

HIGHEST BATTING AVERAGES 1929.

| Batsman | Number of innings | Total runs | Highest score | Times out | Average |
|--------------------|-------------------|------------|---------------|-----------|---------|
| Holte | 30 | 2093 | 204 | 5 | 69.77 |
| Hanmond (W. R.) | 47 | 2450 | 235 | 9 | 52.13 |
| Woolley (F. E.) | 55 | 2604 | 276 | 5 | 47.34 |
| Head (C. F.) | 34 | 1722 | 233 | 7 | 50.94 |
| Stapledon | 26 | 1694 | 203 | 3 | 65.15 |
| R. E. Wyatt | 25 | 1630 | 161 | 6 | 65.20 |
| R. E. (Buckingham) | 31 | 1545 | 146 | 3 | 49.84 |
| Butcliffe | 45 | 1446 | 150 | 4 | 32.13 |
| Barnham | 58 | 1395 | 147 | 4 | 23.88 |
| Whitwell | 54 | 1378 | 144 | 3 | 25.54 |

* Signifies not out.

CHIEF BOWLING AVERAGES, 1929.

| Bowler | Over | Maidens | Runs | Wickets | Average |
|-------------------|------|---------|------|---------|---------|
| Tyldesley (R.) | 2124 | 350 | 2399 | 254 | 25.57 |
| J. C. White | 2358 | 413 | 2518 | 166 | 25.76 |
| Barnes (R. F.) | 2174 | 413 | 2475 | 20 | 20.03 |
| Collyard | 2405 | 357 | 2075 | 284 | 20.34 |
| Mal. E. L. Arnold | 2000 | 35 | 305 | 18 | 16.94 |
| Parker | 2000 | 252 | 2002 | 200 | 27.00 |
| Shannon (A.) | 400 | 136 | 1050 | 50 | 21.00 |
| Kennedy | 1178 | 244 | 7772 | 254 | 26.00 |
| W. D. V. Hill | 200 | 36 | 109 | 24 | 20.00 |
| Barnes (A. P.) | 2400 | 381 | 2799 | 267 | 26.00 |
| Barnes (A. C.) | 122 | 49 | 248 | 19 | 26.21 |
| J. C. (L.) | 200 | 50 | 664 | 37 | 26.32 |
| Tate (M. W.) | 1400 | 203 | 2003 | 156 | 26.30 |
| Rhodes | 2007 | 200 | 1000 | 100 | 26.00 |
| Bowen | 2007 | 140 | 1243 | 65 | 26.00 |
| Clark | 2000 | 236 | 1246 | 100 | 26.00 |
| Carty (G.) | 1405 | 400 | 2050 | 150 | 26.00 |
| L. A. R. Peville | 957 | 400 | 1243 | 123 | 26.00 |

Figures in parentheses indicate the positions of the counties at the close of the previous season.

Oxfordshire won the Minor County Championship by beating Buckinghamshire.

MISCELLANEOUS CRICKET RECORDS.

Highest individual scores: A. E. Stoddart 286 for Hampshire v. Essex, 1926. In first-class cricket in England A. C. MacLaren 424 for Lancashire v. Somerset, at Taunton July 1926. In Australia W. H. Ponsford 437 for Victoria v. Queensland in 1926.

Highest totals: In England, Yorkshire 889 v. Warwickshire, 1926. In Australia, at Melbourne, Victoria, 2307 v. New South Wales, Dec. 28, 1926.

Record win.—Victoria beat New South Wales by innings and 256 runs Dec. 22, 1926.

Record loss.—Victoria lost to Gloucestershire by 10 runs.

AMATEUR ATHLETIC RECORDS

Official Records adopted by International Athletic Federation marked *

RECORDS BY TIME
BADMINTON IN 1929

| Event | Distance | Name |
|------------|----------|--------------|
| 100 yds | 100 | J. B. Smith |
| 200 yds | 200 | C. F. Lerner |
| 400 yds | 400 | H. J. Green |
| 800 yds | 800 | H. J. Green |
| 1,600 yds | 1,600 | H. J. Green |
| 3,200 yds | 3,200 | H. J. Green |
| 6,400 yds | 6,400 | H. J. Green |
| 12,800 yds | 12,800 | H. J. Green |

*** WALKING RECORDS**

| Distance | Time | Name |
|------------|--------|----------------|
| 100 yds | 1:00 | W. Padlock |
| 200 yds | 2:00 | R. Lock |
| 400 yds | 4:00 | W. Padlock |
| 800 yds | 8:00 | J. F. Meredith |
| 1,600 yds | 16:00 | C. Feltner |
| 3,200 yds | 32:00 | P. Feltner |
| 6,400 yds | 64:00 | P. Feltner |
| 12,800 yds | 128:00 | P. Feltner |

| | |
|-----------------|------|
| California | 1901 |
| New York | 1902 |
| California | 1903 |
| Harvard U.S.A. | 1904 |
| Stanford Bridge | 1905 |
| Berlin | 1906 |
| Finland | 1907 |
| Finland | 1908 |
| Finland | 1909 |

GOLF
AMATEUR CHAMPION

| | |
|------|--------------|
| 1908 | E. A. Lasser |
| 1909 | R. Maxwell |
| 1910 | J. Ball |
| 1911 | H. H. Hilton |
| 1912 | J. Ball |
| 1913 | H. H. Hilton |

Over 20 hurdles

| Distance | Time | Name |
|------------|--------|-------------|
| 100 yds | 1:00 | W. Padlock |
| 200 yds | 2:00 | R. Lock |
| 400 yds | 4:00 | W. Padlock |
| 800 yds | 8:00 | H. J. Green |
| 1,600 yds | 16:00 | H. J. Green |
| 3,200 yds | 32:00 | H. J. Green |
| 6,400 yds | 64:00 | H. J. Green |
| 12,800 yds | 128:00 | H. J. Green |

| | |
|----------------|------|
| London | 1901 |
| Amsterdam | 1902 |
| Ames, Iowa | 1903 |
| Lincoln U.S.A. | 1904 |
| London | 1905 |

| | |
|------|----------------------|
| 1904 | E. W. Holderness |
| 1905 | Robert Harris |
| 1906 | J. Sweetser (U.S.A.) |
| 1907 | Dr. W. Tweddell |
| 1908 | 2 P. Perkins |
| 1909 | C. J. H. Tolley |

*** RELAY RACING RECORDS**

| Distance | Time | Name | Place | Year |
|-------------|-------|-----------------|----------------|------|
| 400 yards | 1:00 | Newark A.C. | Lincoln U.S.A. | 1901 |
| 800 yards | 2:00 | New York A.C. | Pasadena Cal. | 1902 |
| 1,600 yards | 4:00 | American Legion | Philadelp. | 1903 |
| 3,200 yards | 8:00 | Georgetown U. | Chicago | 1904 |
| 6,400 yards | 16:00 | U.S. Army | Chicago | 1905 |

| | |
|----------------|------|
| Lincoln U.S.A. | 1901 |
| Pasadena Cal. | 1902 |
| Philadelp. | 1903 |
| Chicago | 1904 |
| Chicago | 1905 |

OLYMPIC CHAMPION

| | |
|------|--------------|
| 1908 | J. Braid |
| 1909 | J. H. Taylor |
| 1910 | J. Braid |
| 1911 | H. Vardon |
| 1912 | F. Ray |
| 1913 | J. H. Taylor |
| 1914 | H. Vardon |

FIFTH EVENTS

| Event | Time | Name |
|------------|---------|-------------|
| High Jump | 4' 6" | J. Braid |
| Long Jump | 25' 11" | J. Braid |
| Pole Jump | 34' 0" | J. Braid |
| 100 yds | 1:00 | W. Padlock |
| 200 yds | 2:00 | R. Lock |
| 400 yds | 4:00 | W. Padlock |
| 800 yds | 8:00 | H. J. Green |
| 1,600 yds | 16:00 | H. J. Green |
| 3,200 yds | 32:00 | H. J. Green |
| 6,400 yds | 64:00 | H. J. Green |
| 12,800 yds | 128:00 | H. J. Green |

| | |
|---------|------|
| Chicago | 1901 |
| Chicago | 1902 |
| Chicago | 1903 |
| Chicago | 1904 |
| Chicago | 1905 |

PROFESSIONAL WALKING

| Time | Name | Year |
|--------|------------------------|------|
| 1:00 | G. C. Mings Manchester | 1913 |
| 2:00 | J. W. Raly London | 1913 |
| 3:00 | J. W. Raly London | 1913 |
| 4:00 | J. W. Raly London | 1913 |
| 5:00 | J. W. Raly London | 1913 |
| 6:00 | J. W. Raly London | 1913 |
| 7:00 | J. W. Raly London | 1913 |
| 8:00 | J. W. Raly London | 1913 |
| 9:00 | J. W. Raly London | 1913 |
| 10:00 | J. W. Raly London | 1913 |
| 11:00 | J. W. Raly London | 1913 |
| 12:00 | J. W. Raly London | 1913 |
| 13:00 | J. W. Raly London | 1913 |
| 14:00 | J. W. Raly London | 1913 |
| 15:00 | J. W. Raly London | 1913 |
| 16:00 | J. W. Raly London | 1913 |
| 17:00 | J. W. Raly London | 1913 |
| 18:00 | J. W. Raly London | 1913 |
| 19:00 | J. W. Raly London | 1913 |
| 20:00 | J. W. Raly London | 1913 |
| 21:00 | J. W. Raly London | 1913 |
| 22:00 | J. W. Raly London | 1913 |
| 23:00 | J. W. Raly London | 1913 |
| 24:00 | J. W. Raly London | 1913 |
| 25:00 | J. W. Raly London | 1913 |
| 26:00 | J. W. Raly London | 1913 |
| 27:00 | J. W. Raly London | 1913 |
| 28:00 | J. W. Raly London | 1913 |
| 29:00 | J. W. Raly London | 1913 |
| 30:00 | J. W. Raly London | 1913 |
| 31:00 | J. W. Raly London | 1913 |
| 32:00 | J. W. Raly London | 1913 |
| 33:00 | J. W. Raly London | 1913 |
| 34:00 | J. W. Raly London | 1913 |
| 35:00 | J. W. Raly London | 1913 |
| 36:00 | J. W. Raly London | 1913 |
| 37:00 | J. W. Raly London | 1913 |
| 38:00 | J. W. Raly London | 1913 |
| 39:00 | J. W. Raly London | 1913 |
| 40:00 | J. W. Raly London | 1913 |
| 41:00 | J. W. Raly London | 1913 |
| 42:00 | J. W. Raly London | 1913 |
| 43:00 | J. W. Raly London | 1913 |
| 44:00 | J. W. Raly London | 1913 |
| 45:00 | J. W. Raly London | 1913 |
| 46:00 | J. W. Raly London | 1913 |
| 47:00 | J. W. Raly London | 1913 |
| 48:00 | J. W. Raly London | 1913 |
| 49:00 | J. W. Raly London | 1913 |
| 50:00 | J. W. Raly London | 1913 |
| 51:00 | J. W. Raly London | 1913 |
| 52:00 | J. W. Raly London | 1913 |
| 53:00 | J. W. Raly London | 1913 |
| 54:00 | J. W. Raly London | 1913 |
| 55:00 | J. W. Raly London | 1913 |
| 56:00 | J. W. Raly London | 1913 |
| 57:00 | J. W. Raly London | 1913 |
| 58:00 | J. W. Raly London | 1913 |
| 59:00 | J. W. Raly London | 1913 |
| 60:00 | J. W. Raly London | 1913 |
| 61:00 | J. W. Raly London | 1913 |
| 62:00 | J. W. Raly London | 1913 |
| 63:00 | J. W. Raly London | 1913 |
| 64:00 | J. W. Raly London | 1913 |
| 65:00 | J. W. Raly London | 1913 |
| 66:00 | J. W. Raly London | 1913 |
| 67:00 | J. W. Raly London | 1913 |
| 68:00 | J. W. Raly London | 1913 |
| 69:00 | J. W. Raly London | 1913 |
| 70:00 | J. W. Raly London | 1913 |
| 71:00 | J. W. Raly London | 1913 |
| 72:00 | J. W. Raly London | 1913 |
| 73:00 | J. W. Raly London | 1913 |
| 74:00 | J. W. Raly London | 1913 |
| 75:00 | J. W. Raly London | 1913 |
| 76:00 | J. W. Raly London | 1913 |
| 77:00 | J. W. Raly London | 1913 |
| 78:00 | J. W. Raly London | 1913 |
| 79:00 | J. W. Raly London | 1913 |
| 80:00 | J. W. Raly London | 1913 |
| 81:00 | J. W. Raly London | 1913 |
| 82:00 | J. W. Raly London | 1913 |
| 83:00 | J. W. Raly London | 1913 |
| 84:00 | J. W. Raly London | 1913 |
| 85:00 | J. W. Raly London | 1913 |
| 86:00 | J. W. Raly London | 1913 |
| 87:00 | J. W. Raly London | 1913 |
| 88:00 | J. W. Raly London | 1913 |
| 89:00 | J. W. Raly London | 1913 |
| 90:00 | J. W. Raly London | 1913 |
| 91:00 | J. W. Raly London | 1913 |
| 92:00 | J. W. Raly London | 1913 |
| 93:00 | J. W. Raly London | 1913 |
| 94:00 | J. W. Raly London | 1913 |
| 95:00 | J. W. Raly London | 1913 |
| 96:00 | J. W. Raly London | 1913 |
| 97:00 | J. W. Raly London | 1913 |
| 98:00 | J. W. Raly London | 1913 |
| 99:00 | J. W. Raly London | 1913 |
| 100:00 | J. W. Raly London | 1913 |

PROFESSIONAL TIME RECORDS, RUNNING

| Time | Name | Year |
|-------|----------------------|------|
| 1:00 | H. Watkins Rochdale | 1913 |
| 2:00 | H. Holmer, Ellulargi | 1913 |
| 3:00 | G. Mason London | 1913 |
| 4:00 | G. Cartwright W'm | 1913 |
| 5:00 | C. Rowell New | 1913 |
| 6:00 | J. Meagher New | 1913 |
| 7:00 | W. Perkins | 1913 |
| 8:00 | H. Thatcher | 1913 |
| 9:00 | J. Hibberd | 1913 |
| 10:00 | W. Howes | 1913 |

RUGBY UNION FOOTBALL

ASSOCIATION FOOTBALL

BRISTOL & GLOUCESTER 1898-99

BRISTOL & GLOUCESTER 1898-99

31. Paris—Ireland beat France by 4 pts for

19. Tyn Kenham—England beat Wales by 20

19. Murrayfield—Scotland beat France by 10 to 3

1901-1902
1901 have won 2 matches

LEAGUE IN 1902

F.A.
West

Amateur—Hford beat Leyton 2-1 at Highbury

April 29, 1902

South F.A.—

Cliftonville Cl

Wotton & A.

Wrexham Ma.

Leamington, at Warrington. Wigan won 3-1 to 1-1

AMATEUR IN 1902

League Championship—F.M. Barling

1902 H. Wills won Women's Singles of Fr

and 1-2-4

1902—1902 won America to the 1902

1902 in Cup—America beat Great Britain 2

AVIATION IN 1929

Interest in aviation this year was well maintained.

CHIEF GOLF WINNERS IN 1929

CYCLING

U.S. CHAMPIONSHIPS 1929

| Winner | Time |
|----------------|-----------|
| M. T. C. Jones | 00 37 1/2 |
| H. H. Wyld | 00 38 1/2 |
| H. H. Wyld | 00 39 1/2 |
| H. H. Wyld | 00 40 1/2 |
| H. H. Wyld | 00 41 1/2 |
| H. H. Wyld | 00 42 1/2 |
| H. H. Wyld | 00 43 1/2 |
| H. H. Wyld | 00 44 1/2 |
| H. H. Wyld | 00 45 1/2 |
| H. H. Wyld | 00 46 1/2 |

and
and

1929-1930 57 m.p.h. Licut. Doolittle (U.S.A.) Haiti
1929-1930 49 m.p.h. Major de Bernardi (Italy)
1929-1930 49 m.p.h. Flight Licut. Webster (Britain)
1929-1930 49 m.p.h. Flying Officer Waghorn (Britain)
1929-1930 49 m.p.h. Flying Officer Waghorn (Britain)

POLO IN 1929

WORLD'S CYCLING RECORDS (Standard start motor paced)

| Time | Time |
|--------|--------|
| 10 1/2 | 10 1/2 |
| 10 1/2 | 10 1/2 |
| 10 1/2 | 10 1/2 |
| 10 1/2 | 10 1/2 |
| 10 1/2 | 10 1/2 |
| 10 1/2 | 10 1/2 |
| 10 1/2 | 10 1/2 |
| 10 1/2 | 10 1/2 |
| 10 1/2 | 10 1/2 |
| 10 1/2 | 10 1/2 |

London Lands End (200 miles) 27 h. 20 m. C. F.
John o. Grout (200 miles) 2 days 20 m.
and (Out and Home) J. Lauterbach

SCULLING CHAMPIONSHIP.

| Winner |
|--------------------------------|
| F. Terry beat A. Pelton in Ave |
| J. H. H. beat A. Pelton in Ave |
| J. H. H. beat A. Pelton in Ave |
| J. H. H. beat A. Pelton in Ave |
| J. H. H. beat A. Pelton in Ave |
| J. H. H. beat A. Pelton in Ave |
| J. H. H. beat A. Pelton in Ave |
| J. H. H. beat A. Pelton in Ave |
| J. H. H. beat A. Pelton in Ave |
| J. H. H. beat A. Pelton in Ave |

A WINNING

NATIONAL CHAMPIONSHIPS 1994

| | | | |
|------|-----------|-------|----------------|
| 2920 | Cambridge | 31 32 | 4 lengths. |
| 2921 | Cambridge | 29 25 | 1 length. |
| 2922 | Cambridge | 29 27 | 4 lengths. |
| 2923 | Oxford | 30 54 | 2 of a length. |
| 2924 | Cambridge | 28 41 | 4 lengths. |
| 2925 | Cambridge | 31 50 | 36 lengths. |
| 2926 | Cambridge | 29 20 | 5 lengths. |
| 2927 | Cambridge | 30 14 | 3 lengths. |
| 2928 | Cambridge | 30 25 | 2 lengths. |

LADIES CHAMPIONSHIP

| | |
|----------------------------|--------|
| 100 yards—Miles M J Cooper | 0 1 4 |
| " " " " " " | 0 2 2 |
| " " " " " " | 0 3 2 |
| " " " " " " | 0 0 6 |
| " " " " " " | 0 6 2 |
| " " " " " " | 1 34 1 |

WORLD & AMATEUR SWIMMING RECORDS

MAX-STATE STYLE

100 yal 1a-P HUMAN N I R A
150 yal 1a-P HUMAN N I R A

Figure 1
Subject 1
1-2

| | |
|-----|-----|
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 26 |
| 27 | 27 |
| 28 | 28 |
| 29 | 29 |
| 30 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 36 | 36 |
| 37 | 37 |
| 38 | 38 |
| 39 | 39 |
| 40 | 40 |
| 41 | 41 |
| 42 | 42 |
| 43 | 43 |
| 44 | 44 |
| 45 | 45 |
| 46 | 46 |
| 47 | 47 |
| 48 | 48 |
| 49 | 49 |
| 50 | 50 |
| 51 | 51 |
| 52 | 52 |
| 53 | 53 |
| 54 | 54 |
| 55 | 55 |
| 56 | 56 |
| 57 | 57 |
| 58 | 58 |
| 59 | 59 |
| 60 | 60 |
| 61 | 61 |
| 62 | 62 |
| 63 | 63 |
| 64 | 64 |
| 65 | 65 |
| 66 | 66 |
| 67 | 67 |
| 68 | 68 |
| 69 | 69 |
| 70 | 70 |
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| 72 | 72 |
| 73 | 73 |
| 74 | 74 |
| 75 | 75 |
| 76 | 76 |
| 77 | 77 |
| 78 | 78 |
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| 80 | 80 |
| 81 | 81 |
| 82 | 82 |
| 83 | 83 |
| 84 | 84 |
| 85 | 85 |
| 86 | 86 |
| 87 | 87 |
| 88 | 88 |
| 89 | 89 |
| 90 | 90 |
| 91 | 91 |
| 92 | 92 |
| 93 | 93 |
| 94 | 94 |
| 95 | 95 |
| 96 | 96 |
| 97 | 97 |
| 98 | 98 |
| 99 | 99 |
| 100 | 100 |

1.000

| | |
|----|----|
| 4 | 8 |
| 88 | 45 |
| 88 | 38 |
| 87 | 5 |
| 6 | 33 |
| 6 | 54 |
| 4 | 54 |
| 5 | 86 |
| 4 | 89 |
| 9 | 79 |
| 6 | 58 |
| 17 | 89 |

5. **Answer:** **100%**

... if
... that
... get on
... the in
... which

CLOSE TIMES FOR GAME

In each case the dates are inclusive —

Black Game—Dec. 22 to Aug. 29 (Aug. 31 in Somerset, Devon and New Forest).

Grouse—Dec. 22 (Dec. 26, North Devon) to Aug. 22.

Partridge—Feb. 2 to Aug. 31.

Pheasant—Feb. 2 to Sept. 30.

is under the Wild Birds Protection Acts 1880 to 1908 from March 2 to July 31 both inclusive. Otherwise this close-time applies to all wild birds throughout Great Britain.

HUNTING AND GROUND GAME.

SEASONABLE AND UNSEASONABLE FISH

This full table shows the periods when the different kinds of edible fish are in season and out of season.

The letter p signifies that the fish are then

in their prime or most plentiful; the letter x signifies that the fish may be obtained, but are not at their best; the letter c signifies that it is close time as fixed by statute.

| NAME OF FISH | Jan | Feb | Mar | April | May | June | July | Aug | Sept | Oct | Nov | Dec | NAME OF FISH | Jan | Feb | Mar | April | May | June | July | Aug | Sept | Oct | Nov | Dec |
|-----------------------|-----|-----|-----|-------|-----|------|------|-----|------|-----|-----|-----|---------------|-----|-----|-----|-------|-----|------|------|-----|------|-----|-----|-----|
| Barbel | p | c | c | c | c | c | c | p | p | p | p | p | Lobster | x | x | x | x | x | x | x | x | x | x | x | x |
| Bass | | | p | p | p | p | p | p | p | p | p | p | Mackerel | x | x | x | x | x | x | x | x | x | x | x | x |
| Bream | p | p | c | c | c | c | c | p | p | p | p | p | Mullet (red) | p | p | p | p | p | p | p | p | p | p | p | p |
| " (sea) | x | x | x | x | x | x | x | x | x | x | x | x | Mullet (grey) | p | p | p | p | p | p | p | p | p | p | p | p |
| Brid | p | p | p | x | x | x | x | x | x | x | x | x | Mussel | p | p | p | p | p | p | p | p | p | p | p | p |
| Carp | i | p | c | c | c | c | c | x | x | x | x | x | Oyster (b) | p | p | p | p | p | p | p | p | p | p | p | p |
| Catfish | x | p | p | p | p | p | p | p | p | c | c | c | Perch | p | p | p | p | p | p | p | p | p | p | p | p |
| Charr | x | x | c | x | p | p | p | p | p | c | c | c | Periwinkle | p | p | p | p | p | p | p | p | p | p | p | p |
| Chub | x | x | c | c | c | c | x | p | p | p | p | p | Pike | p | p | p | p | p | p | p | p | p | p | p | p |
| Coal fish or flatfish | i | p | p | x | x | x | x | x | x | p | p | p | Pill hard | p | p | p | p | p | p | p | p | p | p | p | p |
| Cockle | x | x | x | x | x | x | x | p | p | p | p | x | Plaice | p | p | p | p | p | p | p | p | p | p | p | p |

July

1. Carlisle 12 days — Newmarket 14 days
 2. Alford Command and District Horse and Field Show
 3. Worcester 10 days
 4. A.A.A. Champs. 10 days
 5. Alexandra Park 1 day
 6. A. & S. 10 days
 7. 10 July 11 h. Salisbury 3 days
 8. Litchfield Park 10 days — Haydock 10 days
 9. Epsom 1 day
 10. Epsom 1 day — Fulkestone 10 days
 11. Newmarket 12 days
 12. Bath 10 days
 13. Newmarket 10 days — Hamilton Park 10 days
 14. Ayr 10 days — Leicester 10 days
 15. Lanchester 10 days
 16. Epsom 10 days — Hurst Park 10 days — Test Match, England v. Australia, Manchester — Henry Rega 10
 17. Pontefract 10 days — Litchfield 10 days
 18. Game and Gun Live-ree Exh.

September

1. Phoenix Shooting begins—Month Chases 10 days
 2. Th. 10 days
 3. Stratford-on-Avon Chases 10 days
 4. Alexandra Park 1 day
 5. Nott. 10 days
 6. Pontefract 10 days — Chesham 10 days
 7. United Border Hunt (Kelsa) 10 days — Kempton Park 10 days
 8. Haydock Park 10 days
 9. Win. 10 days
 10. 10 days
 11. 10 days
 12. 10 days
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21. Carlisle Chases 10 days — Park 10 days
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August

1. Catterick Bridge 10 days
 2. Alexandra Park 1 day
 3. Bath 10 days — Newton 10 days
 4. 10 days — Isle of Wight Chases 1 day — Hanover Park 1 day — Litchfield 1 day — Ripon 1 day
 5. Dublin Horse Show 4 days
 6. Leves 1 day — Thirsk 1 day
 7. Fulkestone & Nottingham 10 days
 8. 10 days
 9. Kempton Park 1 day
 10. International Horticultural Show London
 11. Redcar 10 days — Windsor 1 day
 12. Waterbury 10 days
 13. Woking 10 days
 14. Bath 10 days
 15. Hurst Park and Haydock 1 day
 16. York 10 days
 17. Devon and Exeter Chases 1 day
 18. Gatwick and Dugdale Irvine 1 day

October

1. Phoenix Shooting begins—Month Chases 10 days
 2. Th. 10 days
 3. Stratford-on-Avon Chases 10 days
 4. Alexandra Park 1 day
 5. Nott. 10 days
 6. Pontefract 10 days — Chesham 10 days
 7. United Border Hunt (Kelsa) 10 days — Kempton Park 10 days
 8. Haydock Park 10 days
 9. Win. 10 days
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December

1. Litchfield Chases 10 days
 2. Catterick Chases 10 days
 3. Carlisle Chases 10 days
 4. Sandown and Haydock Park 10 days
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Merchandise Shipping 1914 and 1929

| Country | Gross Tonnage Steam and Motor Ships only | | |
|---------|---|------------|--------------|
| | 1914 | 1929 | Difference |
| U.S.A. | 45,434,000 | 66,408,000 | + 21,004,000 |
| U.K. | 1,000,000 | 1,000,000 | 0 |
| France | 1,000,000 | 1,000,000 | 0 |
| Germany | 1,000,000 | 1,000,000 | 0 |
| Italy | 1,000,000 | 1,000,000 | 0 |
| Japan | 1,000,000 | 1,000,000 | 0 |
| China | 1,000,000 | 1,000,000 | 0 |
| India | 1,000,000 | 1,000,000 | 0 |
| Others | 1,000,000 | 1,000,000 | 0 |
| Total | 45,434,000 | 66,408,000 | + 21,004,000 |

Distribution of British Trade 1913 and 1928

| Imports from | 1913 | | 1928 | |
|--------------|------------|------------|------------|------------|
| | £1,000 | £1,000 | £1,000 | £1,000 |
| U.S.A. | 1,000 | 1,000 | 1,000 | 1,000 |
| U.K. | 1,000 | 1,000 | 1,000 | 1,000 |
| France | 1,000 | 1,000 | 1,000 | 1,000 |
| Germany | 1,000 | 1,000 | 1,000 | 1,000 |
| Italy | 1,000 | 1,000 | 1,000 | 1,000 |
| Japan | 1,000 | 1,000 | 1,000 | 1,000 |
| China | 1,000 | 1,000 | 1,000 | 1,000 |
| India | 1,000 | 1,000 | 1,000 | 1,000 |
| Others | 1,000 | 1,000 | 1,000 | 1,000 |
| Total | 45,434,000 | 66,408,000 | 45,434,000 | 66,408,000 |

The British Empire.

AREA AND POPULATION

| Continental Distribution | English Square Miles | Estimated Population |
|--------------------------|----------------------|----------------------|
| In Europe | 121 512 | 48 000 000 |
| In Asia | 1 824 550 | 333 000 000 |
| In Africa | 4 652,000 | 50 000 000 |
| In North America | 3 893 020 | 4 000 000 |
| In Central America | 8 600 | 50 000 |
| In the West Indies | 12 300 | 1 730 000 |
| In South America | 97,800 | 314 000 |
| In Oceania | 3 300 000 | 8 000,000 |
| Total | 13 909,782 | 450 094 000 |

with the exception of the Imperial War All

ETHNOLOGY The estimate of white population follows *resident, 100* *in the absence of*
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| Divisions and Capitals | Area (sq. Miles) | Population. | | |
|------------------------------|---------------------|-------------|-------------|------------|
| | | 1911 | 1921 | 1928 |
| England (a) (London) | 60,874 | 34,045,290 | 35,681,019 | 37,482,000 |
| Wales (b) | 7,456 | 2,023,202 | 2,203,680 | |
| Scotland (Edinburgh) | 29,796 | 4,760,904 | 4,882,497 | 4,897,000 |
| Northern Ireland (Belfast) | 32,039 | 4,390,219 | * 2,256,561 | 2,250,000 |
| Irish Free State (Dublin) | | | * 2,971,993 | 2,949,000 |
| Isle of Man (Douglas) | 221 | 52,016 | 60,284 | |
| Channel Islands | 75 | 95,899 | 90,230 | |
| Navv, Army and Seamen abroad | | 145,729 | 233,952 | |
| Total | 120,489 | 47,402,225 | 47,402,225 | |

(a) Inclusive of Isle of Man and Channel Islands

* Census of 1920

1 Estimated

Births, Marriages and Deaths (Of Britain and Northern Ireland).

| Year | Births | Rate per 1,000 | Marriages | Rate per 1,000 | Deaths | Rate per 1,000 |
|------|---------|----------------|-----------|----------------|---------|----------------|
| 1924 | 855,329 | 19.3 | 136,258 | 15.0 | 353,891 | 22.6 |
| 1925 | 841,405 | 18.7 | 135,827 | 14.9 | 358,132 | 22.4 |
| 1926 | 845,174 | 18.8 | 138,332 | 14.2 | 376,412 | 21.9 |
| 1927 | 777,590 | 17.1 | 148,138 | 15.3 | 368,655 | 22.5 |
| 1928 | 783,652 | 17.2 | 147,449 | 15.2 | 347,664 | 21.9 |

Fertility of Marriages

Illegitimate Births

| | | | Total Births | Illegitimate Births |
|-----------------------|-----|-------------------|--------------|---------------------|
| Teachers | 95 | Police-men | 151 | 6,555 |
| Ministers of Religion | 96 | Postmen | 159 | 55,144 |
| Ministers | 96 | Carmen | 207 | 6,836 |
| Church of England | 96 | Black & white | 231 | 29,070 |
| Ministers | 201 | Born in | 234 | 6,090 |
| Actors | 203 | Milners | 258 | 65,368 |
| Authors & Editors | 204 | General labourers | 438 | 159,578 |
| | | | | 52,148 |
| | | | | 3,158 |
| | | | | 3,533 |
| | | | | 7,150 |
| | | | | 15,208 |

Immigration and Emigration

(1) From and to Places out of Empire

| DEPARTURES OF BRITISH AND NORTH IRISH FROM THE | | | | | | | | | |
|--|--------------|---------------|-----------------------|------------------|--------------|-----------------|---------|--------------------|---------|
| Year | Total Inward | Total Outward | To the British Empire | | | | | To other Countries | |
| | | | North America | Central & S. Am. | South Africa | Other Dominions | Total | U.S.A. | Foreign |
| 1913 | 372,628 | 701,691 | 196,278 | 77,934 | 85,855 | 21,383 | 321,815 | 77,024 | 17,814 |
| 1926 | 337,379 | 402,438 | 83,886 | 70,871 | 22,958 | 28,038 | 205,853 | 59,532 | 19,321 |
| 1927 | 350,761 | 474,119 | 89,571 | 57,358 | 22,213 | 29,656 | 298,998 | 58,243 | 20,085 |
| 1928 | 270,705 | 397,247 | 85,397 | 43,851 | 22,569 | 30,293 | 192,000 | 56,508 | 21,192 |

(2) From and to the Continent of Europe

| Year | Continental | INWARD | | | | OUTWARD | | | | Total |
|------|-------------|--------|---------|-------|-------|---------|---------|-------|-------|-------|
| | | France | Germany | Italy | Other | France | Germany | Italy | Other | |
| 1926 | 1,036,723 | | | | | | | | | |
| 1927 | 1,044,921 | | | | | | | | | |
| 1928 | 1,061,068 | | | | | | | | | |

Not included in grants.—In 1928 British Subjects 18 years of age and upwards and the following parts of the United Kingdom to go into out of Europe.—From Wales males 37,952 females 28,963 from Scotland males 15,057 females 13,291 from Ireland males 4,541 females 3,424

CENSUS POPULATION OF GREAT BRITAIN AND IRELAND

(formed of the English population at various)

| | | | |
|------|------------|------|------------|
| 1811 | 18,509,336 | 1881 | 35,241,431 |
| 1821 | 21,272,187 | 1891 | 38,104,475 |
| 1831 | 24,392,485 | 1901 | 41,956,187 |
| 1841 | 27,036,450 | 1911 | 45,370,330 |
| 1851 | 27,724,056 | 1921 | 48,767,530 |
| 1861 | 27,321,288 | | |

* The population of Great Britain and Ireland a month before the outbreak of the Great War was officially estimated at 46,089,249. The number of persons to the square mile was 1921: England and Wales 649 Scotland 164 Ireland (1921) 235 6

POPULATION ENUMERATED AT EACH DECENNIAL CENSUS IN ENGLAND AND WALES AND SCOTLAND 1801-1921 IRELAND 1831-1921 AND ISLANDS IN THE BRITISH SEAS 1871-1921†

| ENGLAND AND WALES. | POPULATION | | | INCREASE | | PERCENT | | PERMANENT HA. IN. | |
|--------------------|------------|-----------|-----------|-----------|----------|-----------|-----------------|-------------------|-----------------|
| | Males | Females | Total | Decennial | Per Cent | Number | Persons in each | Number | Persons to each |
| 1801 | — | — | — | — | — | 13 | 4 69 | 1 573 873 | 5 64 |
| 1811 | — | — | — | — | — | 67 | 4 74 | 1 797 504 | 5 65 |
| 1821 | — | — | — | — | — | 23 | 4 81 | 1 688 156 | 5 75 |
| 1831 | — | — | — | — | — | 4 | 4 77 | 1 481 544 | 5 80 |
| 1841 | — | — | — | — | — | — | — | 1 343 945 | 5 81 |
| 1851 | — | — | — | — | — | 40 | 4 83 | 1 278 039 | 5 87 |
| 1861 | — | — | — | — | — | 14 | 4 47 | 1 739 595 | 5 87 |
| 1871 | — | — | — | — | — | 6 | 4 50 | 1 439 117 | 5 91 |
| 1881 | — | — | — | — | — | 12 | 4 61 | 1 431 519 | 5 93 |
| 1891 | — | — | — | — | — | 1 | 4 73 | 1 434 447 | 5 93 |
| 1901 | — | — | — | — | — | 1 8 | 4 81 | 1 460 851 | 5 94 |
| 1911 | — | — | — | — | — | 10 | 4 50 | 1 441 781 | 5 95 |
| 1921 | — | — | — | — | — | — | — | — | — |
| SCOTLAND | | | | | | | | | |
| 1801 | 739,091 | 869,329 | 1,608,420 | — | — | 364,079 | 4 41 | 1,094,553 | 5 46 |
| 1811 | 826,196 | 979,568 | 1,805,864 | 107,444 | 12 27 | 402,668 | 4 49 | 1,304,093 | 5 91 |
| 1821 | 928,623 | 1,068,898 | 1,997,521 | 185,657 | 15 82 | 447,960 | 4 66 | 1,447,474 | 6 22 |
| 1831 | 1,114,456 | 1,249,939 | 2,364,395 | 272,865 | 13 64 | 502,301 | 4 70 | 1,569,713 | 6 40 |
| 1841 | 1,241,864 | 1,378,322 | 2,620,186 | 255,798 | 10 82 | 550,428 | 4 76 | 1,669,588 | 6 51 |
| 1851 | 1,375,479 | 1,513,263 | 2,888,742 | 268,558 | 10 25 | 600,098 | 4 81 | 1,770,308 | 6 70 |
| 1861 | 1,449,848 | 1,622,446 | 3,072,294 | 173,552 | 6 00 | 678,584 | 4 51 | 1,993,200 | 7 20 |
| 1871 | 1,603,143 | 1,756,375 | 3,359,518 | 297,224 | 9 72 | 742,694 | 4 51 | 2,116,825 | 7 51 |
| 1881 | 1,709,475 | 1,936,068 | 3,645,543 | 375,555 | 11 18 | 812,712 | 4 60 | 2,339,065 | 7 81 |
| 1891 | 1,842,717 | 2,082,930 | 3,925,647 | 280,074 | 7 77 | 876,089 | 4 59 | 2,549,568 | 8 01 |
| 1901 | 1,973,755 | 2,208,348 | 4,182,103 | 246,456 | 12 06 | 967,200 | 4 62 | 2,715,914 | 8 21 |
| 1911 | 2,108,839 | 2,452,065 | 4,560,904 | 288,801 | 6 46 | 1,040,147 | 4 58 | 2,918,759 | 8 41 |
| 1921 | 2,347,642 | 2,534,855 | 4,882,497 | 311,593 | 6 55 | — | — | 3,057,609 | 8 61 |
| IRELAND | | | | | | | | | |
| 1831 | 3,794,880 | 3,972,522 | 7,767,402 | 965,574 | — | 1,385,066 | 5 61 | 1,249,816 | 6 21 |
| 1841 | 4,019,376 | 4,155,548 | 8,174,924 | 407,723 | 5 25 | 1,472,739 | 5 53 | 1,348,839 | 6 25 |
| 1851 | 3,190,030 | 3,361,725 | 6,551,755 | 622,739 | 19 75 | 1,304,319 | 5 41 | 1,046,823 | 5 93 |
| 1861 | 2,837,370 | 2,961,597 | 5,798,967 | 752,418 | 12 50 | 1,228,300 | 5 14 | 995,196 | 5 63 |
| 1871 | 2,639,753 | 2,772,684 | 5,412,437 | 386,590 | 6 67 | 1,071,494 | 5 04 | 902,360 | 5 66 |
| 1881 | 2,533,277 | 2,641,559 | 5,174,836 | 217,541 | 4 39 | 995,074 | 5 04 | 844,168 | 5 46 |
| 1891 | 2,318,953 | 2,385,797 | 4,704,750 | 170,686 | 6 02 | 922,113 | 5 02 | 770,578 | 5 40 |
| 1901 | 2,000,040 | 2,058,735 | 4,058,775 | 245,075 | 5 23 | 920,756 | 4 90 | 682,158 | 5 20 |
| 1911 | 2,192,048 | 2,198,171 | 4,390,219 | 331,444 | 8 14 | 910,748 | 4 82 | 661,279 | 5 09 |
| ISLANDS | | | | | | | | | |
| 1871 | 66,222 | 78,416 | 144,638 | 1,192 | — | — | — | 23,021 | 4 20 |
| 1881 | 66,081 | 75,179 | 141,260 | 53,378 | 32 34 | — | — | 24,197 | 4 21 |
| 1891 | 69,555 | 78,287 | 147,842 | 6,582 | 4 66 | — | — | 25,624 | 4 21 |
| 1901 | 70,576 | 79,794 | 150,370 | 2,528 | 1 71 | — | — | 27,770 | 4 21 |
| 1911 | 70,166 | 78,749 | 148,915 | 21,435 | 14 06 | 25,664 | 4 27 | 29,200 | 4 21 |
| 1921 | 68,585 | 81,267 | 149,852 | 937 | 0 6 | — | — | — | — |

† Exclusive of the Navy Army and Merchant Fleet on Active

‡ These rates have been corrected for the varying length of the intervals between censuses

§ Incorrectly taken.

|| Increase

¶ Figures for Great Britain only

CENTRAL GOVERNMENT

The Free State

the

LOCAL GOVERNMENT

(a) Summary for 1926

| Year | England and Wales. | Scotland. |
|------|--------------------|-----------|
|------|--------------------|-----------|

DRUNKENNESS

England and Wales

| Year | Licensed Premises. | | Registered Clubs | Convictions (Thousands) |
|------|--------------------|--------|------------------|-------------------------|
| | On. | Off. | | |
| 1913 | 88 739 | 23 632 | 8 457 | 128,877 |
| 1925 | 80 430 | 22 131 | 21 780 | 75 077 |
| 1926 | 79 860 | 22 149 | 22 138 | 67 126 |
| | | 22 149 | 22 481 | 65 166 |
| | | 22 149 | 22 775 | 55 642 |

POLICE

City Boroughs

| Year | 1913 | 1926 |
|------------|--------|-------|
| East Ham | 53 841 | 23 77 |
| Liverpool | 2 603 | 21 |
| Manchester | 4 764 | 21 |
| | 227 | 21 |
| | 14 294 | 23 1 |
| | 7 699 | 24 |

Of the total convictions in 1926 males 64,000 and females 8,444

HOUSING PROGRESS

Great Britain

Number of New Dwellings Approved to 1st April 1927

| Year | England and Wales | Scotland | Total |
|---------|-------------------|----------|---------|
| 1919-20 | 8 666 | 1,070 | 9 736 |
| 1920-21 | 27 077 | 3 412 | 30 489 |
| 1921-22 | 20 820 | 6 212 | 27 032 |
| 1922-23 | 137 906 | 14 407 | 152 313 |
| 1923-24 | 100 119 | 20 790 | 120,909 |
| 1924-25 | 121 895 | 8 765 | 130 660 |
| 1925-26 | 173 553 | 14 506 | 188,059 |
| 1926-27 | 215 287 | 19 383 | 234 670 |

The Metropolitan Police district embraces an area of 447 626 statute acres with a population of about seven and three-quarter millions. There are within this area fourteen Police Courts.

INFANT MORTALITY

| Country | Birth Rate per 1,000 Population | Deaths under 5 years per 1,000 Births |
|-------------|---------------------------------|---------------------------------------|
| Australia | 24 6 | 57 |
| Belgium | 20 5 | 219 |
| Canada | 25 2 | 79 |
| Denmark | 22 8 | 69 |
| France | 20 0 | 25 |
| Italy | 27 1 | 126 |
| Netherlands | 26 6 | 67 |
| Norway | 23 7 | 56 |
| Prussia | 23 9 | 120 |
| Scotland | 23 9 | 96 |

CRIME

(a) Assizes and Quarter Sessions, England and Wales High Courts and Sheriff Courts, Scotland

| Year | England and Wales. | | Scotland. | |
|------|--------------------|-----------|-----------|-----------|
| | For Trial | Convicted | For Trial | Convicted |
| 1913 | 22 211 | 10,165 | 1,358 | 1 056 |
| 1924 | 7 645 | 6 799 | 1 182 | 981 |
| 1925 | 8 129 | 6 639 | 1 195 | 952 |
| 1926 | 7 524 | 6,250 | 1 197 | 995 |
| 1927 | 7 430 | 5 773 | 1 214 | 963 |

SUICIDES

The Deaths recorded as Suicides in Great Britain were—4 032 (1921), 4 152 (1922), 4 077 (1923), 4 080 (1924), 4 456 (1925), 4 272 (1926) and 5 410 (1927).

FINANCE

Revenue and Expenditure for seventeen years ended March 31 1930 —

| Year | Revenue | Expenditure | Surplus + or Deficit — | Gross Debt |
|----------|---------------|---------------|---------------------------|---------------|
| 1913-14 | £198,241,000 | £197,493,000 | + £750,000 | £706,154,000 |
| 1914-15 | 226,694,000 | 250,474,000 | - 233,779,000 | 1,161,958,000 |
| 1915-16 | 336,767,000 | 2,559,158,000 | - 2,222,391,000 | 2,189,818,000 |
| 1916-17 | 573,418,000 | 2,198,113,000 | - 1,624,695,000 | 4,063,645,000 |
| 1917-18 | 707,225,000 | 2,606,227,000 | - 1,898,902,000 | 5,962,806,000 |
| 1918-19 | 859,091,000 | 2,579,301,000 | - 1,690,210,000 | 7,431,050,000 |
| 1919-20 | 1,239,571,000 | 1,665,773,000 | - 426,202,000 | 7,875,642,000 |
| 1920-21 | 1,425,085,000 | 1,195,428,000 | + 229,657,000 | 7,613,097,000 |
| 1921-22 | 1,124,880,000 | 1,079,187,000 | + 45,693,000 | 7,710,538,000 |
| 1922-23 | 914,015,000 | 812,497,000 | + 101,518,000 | 7,812,563,000 |
| 1923-24 | 837,169,000 | 758,240,000 | + 78,929,000 | 7,707,538,000 |
| 1924-25 | 799,436,000 | 795,777,000 | + 3,659,000 | 7,665,880,000 |
| 1925-26 | 812,062,000 | 826,100,000 | - 14,038,000 | 7,613,721,000 |
| 1926-27 | 805,701,000 | 842,395,000 | - 36,694,000 | 7,651,688,000 |
| 1927-28 | 842,824,000 | 838,585,000 | + 4,239,000 | 7,630,973,000 |
| 1928-29 | 855,435,000 | 818,141,000 | + 37,294,000 | 7,620,854,000 |
| 1929-30* | 746,060,000 | 741,964,000 | + 4,096,000 | |

* Budget Estimate.

THE BUDGET 1929-1930.

Changes in Taxation

The Budget of Great Britain for 1929-1930 was

The following Changes in Taxation were proposed in the Budget some being included in the Finance Bill and others left for the new Parliament. The changes included in the Bill were —

CUSTOMS—As from April 23 1929 the duty of 4d. per lb. on foreign, and 3½d. per lb. on Empire Tea is repealed.

EXCISE—As from April 1 1929 the Railway Passengers Duty of 1 per cent. on urban and 5 per cent. on other passenger traffic is repealed.

ESTIMATED AND ACTUAL REVENUE AND EXPENDITURE 1928-1929

| Revenue | | | Expenditure | | |
|-----------------------------|--------------|--------------|---|--------------|--------------|
| | Budget | Actual | | Budget | Actual |
| Surplus from 1927-28 | £4,239,000 | £4,239,000 | National Debt | £304,000,000 | £311,490,566 |
| Customs | 122,167,000 | 118,978,000 | Sinking Fund | 65,000,000 | 57,509,434 |
| Excise | 122,518,000 | 124,000,000 | Northern Ireland | 5,600,000 | 5,100,000 |
| Motor Vehicle Duties | 25,700,000 | 25,357,000 | Road Fund | 21,300,000 | 21,130,933 |
| Estate Duties | 71,000,000 | 80,570,000 | Local Taxation | 24,200,000 | 15,202,644 |
| Stamp | 28,000,000 | 30,060,000 | Other (Consolidated) | | |
| Land Tax and Mineral Rights | | | Fund Services | 2,600,000 | 2,606,538 |
| Duty | 850,000 | 840,000 | Navy | 57,300,000 | 56,980,000 |
| Income Tax | 232,000,000 | 237,600,000 | Army | 41,050,000 | 40,500,000 |
| Super Tax | 60,000,000 | 56,150,000 | Air Force | 26,250,000 | 26,050,000 |
| Excess Profits Duty | 1,000,000 | 850,000 | Civil Services | 223,804,000 | 222,453,000 |
| Corporation Profits Tax | 1,500,000 | 850,000 | Tax Collection (Customs, Excise and Inland Revenue) | 11,777,000 | |
| Post Office Services (Net) | 8,186,000 | 8,100,000 | Total | £762,821,000 | |
| County Lands (Net) | 1,100,000 | 1,110,000 | Surplus | 17,811,000 | |
| From Landry Loans &c | 27,650,000 | 28,110,697 | | | |
| Miscellaneous Receipts | | | | | |
| Ordinary | 23,550,000 | 23,142,946 | | | |
| Special | 40,364,000 | 43,408,345 | | | |
| Total | £780,691,000 | £783,473,688 | Total | £ | |

WHITAKER'S YEARBOOK, 1930

Per head,
1928-29
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to £2. 10s.
employment est
7s. 11 1/2d.

EXPENDITURE

Wholesale Prices

Revenue is to Local Taxation Accounts

| Year | 1927 | 1928 |
|------------|-------|-------|
| April 1924 | 847 | 843 |
| July 1924 | 630 | 634 |
| Av 1923 | 137 6 | 140 |
| Av 1923 | 495 3 | 491 6 |
| Av 1926 | 95 4 | 97 6 |

THE BETTING TAX

received by the Board of
the for Betting Certificates in 1
1926-27 was £207,100 in 1927
in 1928-29 £236,478

ESTIMATED AND ACTUAL REVENUE AND EXPENDITURE 1929-1930

| Revenue | Est | 52 Months | Expenditure | Budget | 52 Months |
|---|--------------|--------------|--|--------------|-----------|
| Customs | £119,850,000 | £61,071,000 | National Debt | £304,600,000 | £157,143 |
| Fines | 130,330,000 | 61,478,000 | Do Sinking Fund | 50,400,000 | 21,224 |
| Motor Vehicle Duties (Exchequer share) | 4,680,000 | 1,624,000 | Northern Ireland | 15,000,000 | 3,426 |
| Estate Duties | 81,000,000 | 41,790,000 | Local Taxation | 45,540,000 | |
| Stamps | 31,000,000 | 11,570,000 | Other Consolidated Fund Services | 3,500,000 | 1,763 |
| Land Tax House Duty and Mineral Rights Duty | 200,000 | 160,000 | Navy | 47,312,000 | |
| Income Tax | 239,500,000 | 37,459,000 | Do Pensions | 8,533,000 | |
| Super Tax | 58,000,000 | 11,490,000 | Army | 31,260,000 | |
| Excess Profits Duty | 1,700,000 | 10,000 | Do Pensions | 8,265,000 | |
| Corporation Profits Tax | 8,900,000 | 4,950,000 | Air Force | 15,983,000 | 270,541 |
| Post Office Services (Net) | 1,250,000 | 610,000 | Do Pensions | 217,000 | |
| Crown Lands (Net) | 20,550,000 | 17,614,000 | Civil Services | 223,345,000 | |
| Prison Laundry Loans to Miscellaneous Receipts | 12,500,000 | 3,027,000 | Tax Collection (Customs Excise and Inland Revenue) | 11,569,000 | |
| Ordinary | 26,000,000 | 11,414,000 | Total | £741,964,000 | £134,911 |
| Special | | | Surplus | 4,096,000 | |
| Total | £745,660,000 | £284,056,918 | Total | £746,060,000 | £134,911 |

CUSTOMS TARIFF OF GREAT BRITAIN AND NORTHERN IRELAND (1929-1930).

Showing the several Articles subject to Import and Export Duties in Great Britain and Northern Ireland, and the duty levied upon each Article, according to the Tariff in operation upon the 1st day of November 1902.

[illegible]

[illegible]

| ARTICLE | Rates of Duty | ARTICLE | Rates of Duty | ARTICLE | Rates of Duty |
|--|---------------|---------|---------------|---------|---------------|
| Tissues— | | | | | |
| Not wholly discharged | 5 3 d | | | | |
| Wholly discharged— | | | | | |
| If proved to the satisfaction of the Commissioners to have been produced from imported raw materials | 10 4 3 | | | | |
| Tissues known as habitual d. d. or printed in Great Britain or Northern Ireland | 10 2 9 | | | | |
| Not d. d. or printed | 10 2 9 | | | | |
| In any other case | 10 2 9 | | | | |
| Waste, dressed or otherwise prepared for spinning— | | | | | |
| Wholly discharged | 10 2 9 | | | | |
| Not wholly discharged | 10 2 9 | | | | |
| Not d. d. or printed | 10 2 9 | | | | |
| Articles of Silk— | | | | | |
| Singles yarn made from staple fibre or other waste | 10 2 9 | | | | |
| Doubled or twisted thread advanced beyond the stage of singles yarn— | | | | | |
| If made from a single fibre of other waste | 10 2 9 | | | | |
| In any other case | 10 2 9 | | | | |
| Tissues made from staple fibre or other waste | 10 2 9 | | | | |
| Tissues proved to the satisfaction of the Commissioners to be made from other forms of artificial silk | 10 2 9 | | | | |
| Waste prepared for spinning or for dyeing | 10 2 9 | | | | |
| Artificial silk— | | | | | |
| Not wholly discharged | 10 2 9 | | | | |
| Wholly discharged | 10 2 9 | | | | |
| Artificial silk— | | | | | |
| Not wholly discharged | 10 2 9 | | | | |
| Wholly discharged | 10 2 9 | | | | |
| Artificial silk— | | | | | |
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| Not wholly discharged | 10 2 9 | | | | |
| Wholly discharged | 10 2 9 | | | | |
| Artificial silk— | | | | | |

KEY INDUSTRY DUTY

The amounts received under the Key Industry Duty are shown below:

| Art cles | Value 1937-38 | Net Revenue 1937-38 |
|---------------------------------|---------------|---------------------|
| Optical Glass etc | £474 978 | £337 609 |
| Beakers, Flasks Durettes etc. | 240 413 | 46 793 |
| Galvanometers, Pyrometers, etc. | 146 309 | 48 829 |
| Wireless Valves, etc. | 222 378 | 40 524 |
| Ignition Magnets etc. | 40 676 | 23 558 |
| Arc lamps | 23 248 | 28 897 |

EXCISE DUTIES AND LICENCES

(ADMINISTERED BY THE BOARD OF CUSTOMS AND EXCISE)

| APPRAISERS AND HOUSE AGENTS and 1 £ s d | £ s d | COFFEE MIXTURES or substitutes per c/lb | £ s d |
|--|--------|---|-------|
| ARTIFICIAL SILK Single, 1 lb or 3 lb (other than yarn produced by spin- ning from artificial silk waste on which duty has been paid). Per lb | 0 1 0 | COMPENSATION FUND.—Publicans are now called upon to pay an additional duty on renewal or grant of new licence (Monopoly 1al 1) (4 E 7 cas) | |
| ARTIFICIAL SILK WASTE Per lb | 0 0 6 | DISTILLER'S Annual Licence according to distillation in preceding year, viz not exceeding 50 000 gallons £10 exceeding 50 000 £15 for first 50 000 and £10 for every further 25 000 | |
| ARTIFICIAL SILK YARN OR WASTE Manufacturers of annual licence | 1 0 0 | By a Beginner " " " 10 0 | |
| ATTORNEY'S Annual Licence | 10 0 0 | ENTERTAINMENT DUTY.—When the payment for admission, excluding the amount of the duty, does not exceed 6d no duty | |
| FEER.—For every 36 galls of wort of a specific gravity 1 055 and so in proportion for any difference in quantity or gravity | 5 0 0 | Exceeds 6d and does not exceed 7d 0 0 | |
| Relate of £1 allowed under Finance Act 1902 or when the duty payable in respect of 36 galls is less than £1 4s relate equal to the amount by which the duty exceeds £1 4s and so in proportion for any differ- ence in quantity | | 7d 8d 0 0 | |
| BEER DEALERS AND BREWERS (annual) | | 8d 1s 0 0 | |
| Beer Dealer Wholesale " 10 10 0 | | 1s 1s 0 0 | |
| Brewer of Beer for sale according to quantity brewed in preceding year viz not exceeding 100 bar- rels £1 exceeding 100 £1 for first 100, and 12s 6d for every further 50 | | 1s 3d 0 0 | |
| By a Beginner " 1 0 0 | | 1s 6d 0 0 | |
| Other brewers if the beer brewed by the brewer is not chargeable with duty then annual value of house not exceeding £10 | 1 5 0 | 1s 8d 0 0 | |
| The annual value exceeding £10 but not exceeding £15 | 2 10 0 | 1s 10d 0 0 | |
| Ditto in every other case in addition to the duty on the beer made | 0 4 0 | 2s 0d 0 0 | |
| Retailers of beer (Beer house Licence) — *For consumption on the premises a duty equal to a third of the annual value of the premises subject to a minimum of from £3 10s 6d to £13 10s 6d according to popula- tion of district. There is an option to pay in proportion to the annual "compensation value" in certain cases of large beer houses and seasonal hotels | | 2s 2d 0 0 | |
| Not to be consumed on premises: from £13 10s 6d where annual value does not exceed £10 up to £10 where it exceeds £10 | | 2s 4d 0 0 | |
| BOOKMAKER'S CERTIFICATE.—Annual by a person carrying on the business of a bookmaker " " 10 0 0 | | 2s 6d 0 0 | |
| BOOKMAKER'S ENTRY CERTIFICATE.— Annual by a bookmaker in respect of the entry for, any betting pre- mises kept or used by him " 10 0 0 | | 2s 8d 0 0 | |
| CARD (Playing) makers to sell " 1 0 0 | | 2s 10d 0 0 | |
| for every pack duty 0 0 3 | | 3s 0d 0 0 | |
| CIDR RETAILER annual licence — *For consumption on the premises from £1 10s 6d where annual value is under £10 up to £10 where it is £10 or over | | 3s 2d 0 0 | |
| Not to be consumed on the premises | 0 0 0 | 3s 4d 0 0 | |
| *For Parcel agents and 6-day licences proportionate reduction as for Pub- licans (1 r) | | 3s 6d 0 0 | |
| | | 3s 8d 0 0 | |
| | | 3s 10d 0 0 | |
| | | 4s 0d 0 0 | |
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[illegible]

KEY INDUSTRY DUTY

The amounts received under the Key Industry Duty are shown below:

| Articles | Value 1927 '28 Net Receipts | Articles | Value 1927 '28 Net Receipts |
|-------------------------------------|--------------------------------|-----------------------------|--------------------------------|
| Optical Glass etc. | £474 978 | Hosiery Latch Needles .. | £62 218 |
| Beakers, Flasks, Burettes etc. | 240 423 | Metallic Tungsten etc. .. | 37 937 |
| Galvanometers Pyrometers etc. .. | 246 509 | Synthetic Organic Chemicals | 572 447 |
| Wireless Valves etc | 221 578 | Amorphous Carbon Electrodes | 355 |
| Ignition Magneto etc. | 40 676 | Molybdenum etc .. | 10,399 |
| Arc lamps .. | 23 248 | | |
| | | Total | £6,635 758 |
| | | | £613 |

LOCAL TAXATION LICENCES

ADMINISTERED BY THE RESPECTIVE COUNTY COUNCILS. LICENCES, EXCEPT LICENCES TO DRIVE MOTOR CARS AND CYCLES OBTAINABLE AT ANY POSTAL MONEY ORDER OFFICE.)

| | |
|--|-------|
| PIEAL HEARINGS annual licence, £ s. d. | |
| Great Britain .. | 1 1 0 |
| and on any carriage &c. | 1 1 0 |

VEHICLES DRAWN BY 11 HORSES OR
LESS —

| | |
|---------------------------------------|-------|
| (1) With four or more wheels— | |
| (a) To be drawn by two or more horses | 1 1 0 |
| (b) To be drawn by one horse only | 1 1 0 |
| (2) With less than four wheels | 1 1 0 |
| (3) Hackney Carriages | 1 1 0 |

of any kind (annually) (Great Britain and Northern Ireland) and those used solely for the purpose of tending sheep or cattle on a farm or by shepherds or by blind persons for their guidance exempt from duty

AND GAS LICENCES AND 533

RELEVANT ANNUAL LICENCES —

| | |
|--|-------|
| Great Britain Every male servant | 1 1 0 |
| The definition in the Act (32 & 33 Vic. c. 14) is wide one, and embraces all classes of both indoor and outdoor servants but with some exceptions. The employer must not however in a personal domestic or menial capacity | |

MATICALLY PROPULSED VEHICLES —

Cycles (including motor scooters and cycles with mechanical propelling attachment) not exceeding 5 cwt. in weight unladen —

| | |
|--------------------------------------|-------|
| Bicycles not exceeding 50 lb unladen | 1 1 0 |
| Exceeding | 3 0 0 |

Bicycles if used for drawing a trailer or sidecar an additional

| | |
|-----------|-------|
| Tricycles | 4 0 0 |
|-----------|-------|

Vehicles (including cycles with mechanical propelling attachment) not exceeding 5 cwt. in weight unladen, adapted and used for invalids

| | |
|---------------------|-------|
| Hackney Carriages — | 1 1 0 |
|---------------------|-------|

Tramways

| | |
|---|-------|
| Other Vehicles having a seating capacity for— | 1 1 0 |
|---|-------|

| | |
|---|-------|
| Locomotive ploughing engines tractors &c., not used for hauling on roads any objects except their own necessary gear, &c. | 1 1 0 |
|---|-------|

Tractors agricultural tractors

and agricultural engines other than such tractors or engines in respect of which a duty is chargeable being vehicles registered under the Roads Act 1930 in the name of a person engaged in agriculture and used solely by that person for the haulage of the produce of or of articles required for the purposes of the agricultural land which he occupies and for no other purpose —

| | |
|------------------------------|-------|
| Not exceeding 5 tons unladen | 1 1 0 |
|------------------------------|-------|

| | |
|------------------|-------|
| Exceeding 5 tons | 1 1 0 |
|------------------|-------|

Vehicles of the following description other than any such vehicles in respect of which duty is chargeable under the two preceding paragraphs that is to say vehicles which are constructed for haulage solely and not for the purpose of carrying or having superimposed upon them any load except such as is necessary for their propulsion or equipment and which are not used for that purpose —

| | |
|------------------------------|-------|
| Not exceeding 5 tons unladen | 1 1 0 |
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| Exceeding 5 tons | 1 1 0 |
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| Exceeding 5 tons | 1 1 0 |
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| MOLASSES and Invert Sugar and all other Sugar and Extracts from Sugar which cannot be completely tested by the polariscope and on which duty is not otherwise charged — | £ s d |
| If containing 70% or more of sweetening matter | Per cwt. 0 6 2 |
| If containing less than 70% and more than 50% | Per cwt. 0 4 5 |
| If containing not more than 50% | Per cwt. 0 2 1 |
| Molasses is free of duty when cleared for use by a licensed distiller in the manufacture of Spirits or if it is to be used solely for the purpose of food for stock | |
| MONTHLY LICENSE.—Annual to July 31 | 15 0 0 |
| OCCASIONAL LICENSES — | |
| Any intoxicating liquor | 0 10 0 |
| Beer or Wine only | 0 5 0 |
| Tobacco dealers | 0 0 4 |
| PASSENGER VEHICLES on board which excisable liquors and tobacco are sold | Licence for a Year 10 0 0 1 day 2 0 0 |
| PAWNBROKERS, ANNUAL LICENSE | 7 10 0 |
| RAILWAY RESTAURANT CAR ADD licence | 1 0 0 |
| RESERVEMENT HOUSES annual licence under £30 rent | 0 10 6 |
| £30 or above | 1 1 4 |
| SACCHARIN (or like substance) the oz | 0 3 1 |

| | |
|--|-----------------|
| SPIRITS — | |
| Home made, per proof gallon | 3 11 4 |
| Add 100lb in respect of Immature Spirits — | |
| Not warehoused or warehoused less than 2 years | proof gal 1 4 |
| Warehoused 2 years and less than 3 years | proof gal 0 1 4 |
| Pectifiers and C mpo inders annual | 15 15 0 |
| Dealers not retailers | 15 15 0 |
| (Methylated) makers of | 10 10 0 |
| retailers of | 0 10 0 |
| Pettallers of for consumption on the premises annual see PUBLICANS. | |
| Retailers cons used off premises — | |
| Annual value of licensed premises — | |
| Not exceeding £10 | 10 0 0 |
| Exceeding £10 and not exceeding £20 | 10 10 0 |
| 20 | 20 10 0 |
| 30 | 30 10 0 |
| 50 | 35 10 0 |
| 75 | 40 10 0 |
| 100 | 45 10 0 |
| 250 | 50 10 0 |
| 500 | 55 10 0 |
| Sale of methylated spirits is prohibited between the hours of 10 p.m. on Saturday and 2 a.m. on the following Monday (penalty £100). | |
| STILLS or RETORTS annual — | |
| Chemists and others keeping or using | 10 0 0 |
| SUGAR (British) MANUFACTURERS ann. | 1 0 0 |
| SWEETS (including British Wine) — | |
| Sent out from the premises of a maker of sweets for sale | gal 0 1 4 |
| Maker's annual licence | 3 3 0 |
| Wholesale Dealer | 3 3 0 |
| Pettallers of the same as for Cider | |
| TABLE WATER (unsweetened) Manufacturer | 10 0 0 |
| TOBACCO grown in Great Britain — | |
| Manufactured in bond | per lb 0 8 |
| Unmanufactured if containing 10% or more of moisture | per lb 0 6 |
| Less than 10% moisture | per lb 0 7 |
| Tobacco Growers Cultivators or Curers England and Scotland | 0 5 |
| TOBACCO and Snuff annual Dealers in | 0 5 |
| Tobacco manufacturers not exceeding | |
| 20,000 lbs | 5 5 |
| Exc 20,000 lbs and not exc 40,000 | 10 10 |
| 40,000 | 15 15 |
| 60,000 | 20 10 |
| 80,000 | 25 5 |
| 100,000 | 30 10 |
| Beginners to pay £5 5s and a surcharge on renewal | |
| VINEGAR MAKERS annual | 1 0 |
| WINE annual licences — | |
| Dealers (wine only) | 10 10 |
| *Retailers selling for consumption on (see o ly PUBLICANS) from £4 10s 0d (annual value under £30) up to £12 (annual value £100 and over). | |
| Wine retailers (or grocers) selling wine (off) from £4 10s 0d (annual value not exceeding £100) up to £12 (annual value exceeding £100). | |
| WINE BRITISH Manufacturers for sale of, see SWEETS. | |
| *For Parliament and 8 2-day Licences proportionate reduction as for Publicans (q v). | |

| | |
|---|--------|
| Contract Note following a duly stamped option contract note chargeable with half the above rates only | £ s d |
| Contract or Grant for payment of a Superannuation Annuity for every £5 or fractional part of £5 | 0 0 6 |
| CONVEYANCE OR TRANSFER—Of Bank of England Stock | 0 15 6 |
| Of any Colonial Stock forming part of public debt of Colony if register is kept in U.K. and the stock is declared under the Colonial Stock Act 1877 for every £100 or fractional part of £100 of nominal amount transferred | 4 5 0 |
| Or may be compounded for See Stamp Act 1891 s. 214 | |
| CONVEYANCE or transfer on sale of any stock (except as aforesaid), of area, or marketable security where the purchase money shall not exceed £5 | 0 1 0 |
| Exceeding £5 and not exceeding £10 | 0 2 0 |
| 10 | 0 3 0 |
| 15 | 0 4 0 |
| 20 | 0 5 0 |
| For every additional £5 up to £300 | 0 5 0 |
| If exceeding £300, then for every £50 | 0 10 0 |
| Price as for composition for transfer | |
| 1st s. 54 & 55 V.C. 39 37 and 38 V.C. 30 30 & 31 Geo. V. c. 18 and 12 & 13 Geo. V. c. 17 | |
| CONVEYANCE or transfer on sale of any property (except as above) where the purchase money shall not exceed £5 | 0 1 0 |
| Exceeding £5 and not exceeding £10 | 0 2 0 |
| 10 | 0 3 0 |
| 15 | 0 4 0 |
| 20 | 0 5 0 |
| For every additional £5 up to £300 | 0 5 0 |
| If exceeding £300 then for every £50 | 0 10 0 |
| Of any kind not otherwise charged | 0 10 0 |
| Conveyances by way of gift inter vivos are charged as conveyances on sale | |
| Exceptions for marriage settlements, and certain gifts of property for preservation of open spaces and for conveyances to appoint new trustees &c. | |
| COPY or EXTRACT (attested or authenticated), the same duty as original but not to exceed | 0 1 0 |
| COPY and CUSTOMARY RATES—If on sale mortgage or demise the ad valorem duties under Conveyance, Mortgage or Lease. Upon any other occasion—Surrender or grant made out of court or the memorandum thereof and Copy of court roll of any surrender or grant made in court | 0 10 0 |

| | |
|---|----------------|
| COTENANT—for repayment of money | £ |
| see MORTGAGE | |
| For original creation as sale of any annuity | see CONVEYANCE |
| For an annuity (except on original creation and sale) or other periodical payments | see RENT |
| Separate Deed of made on occasion of sale or mortgage but not being an instrument chargeable with ad valorem duty as a Conveyance or Mortgage same duty as a Conveyance on sale or a Mortgage but not to exceed | 0 1 0 |
| DEATH DUTIES see ESTATE | |
| DECLARATION see AFFIDAVIT | |
| DECLARATION OF TRUST not being a Will or Settlement | 0 1 0 |
| DEED of any kind not charged under some special head | 0 1 0 |
| DEMISE see LEASE | |
| DEPUTATION or Appointment of a Gamekeeper | 0 1 0 |
| DUPPLICATE OR COUNTERPART | |
| Same duty as original but not to exceed | 0 1 0 |
| ECCLIASTICAL LICENCES— | |
| To hold the office of lecturer &c. | 0 1 0 |
| For licensing a building for divine service &c. and any chapel for solemnising marriages | 0 1 0 |
| Licence not otherwise charged | 0 1 0 |
| EQUITABLE MORTGAGES under hand only for every £100 or part thereof | 0 1 0 |

| ESTATE DUTY | | ESTATE DUTY | |
|---|----------|-------------|----------|
| In the case of every person dying after 30 June 1925, where the principal value of all property Real or Personal settled or not settled passing on the death of such person | | | |
| exceeds | per cent | exceeds | per cent |
| £100 | — | £1 | — |
| 500 | — | 5 | — |
| 1,000 | — | 10 | — |
| 5,000 | — | 20 | — |
| 10,000 | — | 30 | — |
| 25,000 | — | 40 | — |
| 50,000 | — | 50 | — |
| 100,000 | — | 60 | — |
| 250,000 | — | 70 | — |
| 500,000 | — | 80 | — |
| 1,000,000 | — | 90 | — |
| 2,500,000 | — | 100 | — |
| 5,000,000 | — | 110 | — |
| 10,000,000 | — | 120 | — |
| 25,000,000 | — | 130 | — |
| 50,000,000 | — | 140 | — |
| 100,000,000 | — | 150 | — |
| 250,000,000 | — | 160 | — |
| 500,000,000 | — | 170 | — |
| 1,000,000,000 | — | 180 | — |
| 2,500,000,000 | — | 190 | — |
| 5,000,000,000 | — | 200 | — |

Estate Duty in respect of agricultural property is to be charged in part on agricultural value at the rates set out in the Finance Act 1919 to lieu of the above rates

Gifts made by deceased during his life for public or charitable purposes are charged unless made more than twelve months before death other gifts are charged, no

year 1927-8) The Sur Tax is in effect a deferred instalment of Income tax payable on January 1 after the end of the Income Tax year. Thus the first payment of Sur Tax is due January 1, 1930, and is the deferred instalment of Income Tax for the year 1928-9.

Sur Tax is imposed at the following rates on persons whose total incomes exceed £2,000—

In respect of the first £2,000 Nil.

In respect of the excess over £2,000—

For every £ of the first £500 of the excess £ 2 6

For every £ of the next £500 of the excess 0 2

For every £ of the next £1,000 of the excess 0 1

For every £ of the next £2,000 of the excess 0 2

For every £ of the next £3,000 of the excess 0 3

For every £ of the next £4,000 of the excess 0 4

For every £ of the next £5,000 of the excess 0 5

For every £ of the next £10,000 of the excess 0 6

total income includes any earned income of wife, the personal allowance of £25 is increased by a sum equal to five sixths of the amount

Rates of Tax chargeable on the Taxable Income.—The following provisions as to the tax chargeable on the taxable income, that part of the income on which tax is actually charged, apply whatever the total

Where the premium exceeds 2s 6d per cent.
For any voyage — £ s d
Where the sum insured does not exceed £500. 0 0 3
Exceeds £500 but does not exceed £500 0 0 6
£500 0 0 9
£750 0 0 10
£1,000 for every £500 or fractional part of £500 0 0 6

For Time —
Where the insurance is made for any time —

(a) Exceeding 6 months, this three times the amount which would be payable if the insurance were made upon a voyage

(a) Exceeding 6 months and not exceeding 24 months six times the amount which would be payable if the insurance were made upon a voyage

Containing Continuation Clause an additional duty of 0 0 6

(s. 67 & 71)

Penalty for fraud or evasion of Sea Freight duty 100 0 0

INVENTORY DUTY AND ESTATE DUTY

LAND TAX.—The quota payable by each Parish as fixed in the year 1908 (less the amount redeemed) is raised by an equal pound rate the rate of Assessment not to exceed 2s in the £. Where the income of the owner of the land (when not a body of persons corporate or incorporated) does not exceed £100 he is exempt from payment of land tax and if the owner's income does not exceed £400 one half of the tax is remitted but he must claim this relief before payment of the tax

*LEASES.—Lease or tack of any dwelling house or

TERMINATES RETIREMENTS LICENCES £ s d
(see additional is payable for every patient over 20 in number) 5 0 0
INSURANCE POLICIES—LIFE
For any sum not exceeding £100 0 0 1
Ex £10 and not ex £25 0 0 3
Ex £25 and not ex £500 for every £50 or fractional part of £50 0 0 6
Ex £500 and not ex £1,000 for every £1,000 or fractional part of £1,000 0 1 0
Ex £1,000 for every £1,000 or any fractional part of £1,000 0 10 0
POLICIES OF INDemnITY available under the Employers Liability Act 1880 and the Workmen's Compensation Act 1897
Under section 1 0 0 6
Under seal 0 10 0
—ACCIDENTAL DEATH or Personal Injury or on periodical payments during sickness or loss of damage upon Property 0 0 6
Provision for Compensation for Insurance Duties see s. 53, Act of 1890, and s. 60, Act of 1891 and s. 13 and 14, Act of 1892
INSURANCE POLICIES—FIRE
Where the premium does not exceed 2s 6d per cent. 0 0 1

£ s d
£5 10 0 2 0 0 12 0 1 4 0
10 15 0 3 0 0 18 0 1 16 0
15 20 0 4 0 0 24 0 2 8 0
20 25 0 5 0 0 30 0 3 0 0
25 30 0 6 0 0 36 0 4 0 0
30 35 0 7 0 0 42 0 5 0 0
35 40 0 8 0 0 48 0 6 0 0
40 45 0 9 0 0 54 0 7 0 0
45 50 0 10 0 0 60 0 8 0 0
50 55 0 11 0 0 66 0 9 0 0
55 60 0 12 0 0 72 0 10 0 0
60 65 0 13 0 0 78 0 11 0 0
65 70 0 14 0 0 84 0 12 0 0
70 75 0 15 0 0 90 0 13 0 0
75 80 0 16 0 0 96 0 14 0 0
80 85 0 17 0 0 102 0 15 0 0
85 90 0 18 0 0 108 0 16 0 0
90 95 0 19 0 0 114 0 17 0 0
95 100 0 20 0 0 120 0 18 0 0
100 for £50 or fractional part of £50 0 10 0 3 0 0 6

Lease of any kind not specially charged
Agreement for lease not exceeding 25 years as actual lease

Section 15 of the Revenue Act 1901 that in cases where the consideration of the consideration consists of any interest or security (other than rent) the amount of which does not exceed £500 an instrument contains a certificate that it does not form part of a

| | | | |
|--|--------|---|--------|
| POWER OF ATTORNEY &c. receiving £ s d. | | STOCK CERTIFICATE to Bearer, see SHARE WARRANT | |
| For the receipt of any money or bill or note not exceeding £50. or of any periodical payments not exceeding £50 annually | 0 5 0 | SUCCESSION DUTIES, see LEGACY DUTIES | |
| For the receipt of dividends or interest of any stock, if for one payment only | 0 1 0 | STAMP TAX see INCOME TAX | |
| Deed in any other case | 0 3 0 | TRANSFER OF STOCK, see CONVEYANCE | £ s d |
| Proxy to vote at a meeting | 0 0 1 | Transfer of Share in Cost-Book Mines | 0 0 6 |
| Power of attorney of any other kind | 0 10 0 | VALUATION, see APPRAISEMENT | |
| PROTESTATION Deed or other Instrument of | 0 10 0 | VOTING PAPER or Proxy | 0 0 1 |
| PROMISSORY NOTE, see BILL OF EXCHANGE | | WARRANT FOR GOODS | 0 0 3 |
| PROPERTY AND INCOME TAX see INCOME TAX | | Deeds Stamped after Execution. | |
| PROTEST of any Bill of Exchange— | | REGULATIONS under which the Commissioners as a general rule allow deeds and other instruments to be stamped after execution — | |
| Where the duty on the Bill or Note does not exceed the same duty as the Bill or Note | 0 1 0 | | |
| In any other case | 0 0 2 | Foreign sea policies, within 30 days of arrival in L K | |
| RECEIPTS £5 or upwards | 0 0 2 | Deeds and instruments not otherwise excepted, within 30 days of first execution | |
| | | | |
| RECEIPT CERTIFICATE ON RECEIPT | 0 0 2 | | |
| SETTLEMENTS—Any deed whereby any definite sum or stock or security is settled or agreed to be settled in any manner for every £100 or part of £100 | 0 5 0 | | |
| SHARE CERTIFICATE, &c. REGIONS to Bearer (secs 4 (a) and 6 of Fin Act 1899) on first negotiation in L K for every £25, or fraction of £25 | 0 0 3 | | |
| SHARE WARRANT and Stock Certificate to Bearer— | | | |
| 1. Of any Company, Corporation or body of persons in the L K or abroad per cent. on nominal value | 1 0 0 | have been given | 5 0 0 |
| 2. Of any Foreign or Colonial Company on first negotiation in L K for every £50 or fractional part of £50 | 0 4 0 | Receipts, after 24 days, but within one month | 10 0 0 |
| | | Other Instruments presented after the proper time (subject to special provisions in some cases) | 10 0 0 |
| | | Hours at Somerset House | |
| | | Inland Revenue Office, 10 to 4 (Saturdays 1). | |

GAME AND GUN LICENCES

however, the occupier is himself licensed, he cannot authorise any unlicensed person to carry

STATE EXPENDITURE 1929-30

TAXATION PER HEAD

The amount of taxation per head of population in various countries is shown in the following table—

| | 1928-9 | 1929-30 |
|----------------|--------|---------|
| Australia | 1 8 3 | 1 10 0 |
| Canada | 3 7 0 | 3 5 10 |
| France | 1 10 8 | 5 6 5 |
| Germany | 8 8 8 | 3 8 9 |
| New Zealand | 6 3 0 | 10 7 11 |
| South Africa | 6 15 4 | 11 17 8 |
| United Kingdom | 3 11 4 | 15 8 8 |
| U.S.A. | 1 7 11 | 0 1 11 |

The figures for the Union of South Africa are—

| | 1928-9 | 1929-30 |
|-----------------------|--------|---------|
| Union of South Africa | 1 7 11 | 0 1 11 |

THE CIVIL ESTIMATES

The Civil Estimates show an increase of £13,346,270 for the year as follows—

| | 1928-9 | 1929-30 |
|--------------------|-------------|-------------|
| Civil Services | £ 1,100,000 | £ 1,200,000 |
| Customs and Excise | 1,000,000 | 1,100,000 |
| Land Revenue | 1,000,000 | 1,100,000 |
| Post Office | 1,000,000 | 1,100,000 |

The Civil Estimates are divided into 10 Classes as shown below—

CLASS I CENTRAL GOVERNMENT AND FINANCE

| | 1928-9 | 1929-30 |
|---|---------|---------|
| Principal Items— | | |
| House of Lords Office | £54,856 | 55,000 |
| House of Commons (incl. payment of Members) | 355,270 | 355,270 |
| Registration of Voters &c. | 210,000 | 210,000 |
| Various Govt. Offices | 885,853 | 885,853 |
| Government Hospitality | 12,000 | 12,000 |
| Mint (incl. Coinage) | 150,000 | 150,000 |
| Secret Service | 180,000 | 180,000 |
| Scotland | | |
| Revenue Office | 285,254 | 285,254 |

Total

CLASS II IMPERIAL AND FOREIGN

| | 1928-9 | 1929-30 |
|-----------------|-----------|------------|
| Foreign Office | £206,700 | £208,120 |
| Imperial Office | 1,044,993 | 1,027,330 |
| Colonial Office | 76,300 | 85,000 |
| India Office | 500,000 | 500,000 |
| Admiralty | 1,370,000 | 1,350,000 |
| Naval Office | 146,349 | 147,494 |
| Air Ministry | 1,083,625 | 908,697 |
| War Office | 673,038 | 537,678 |
| Total | — | £5,144,000 |

CLASS III HOME DEPARTMENT LAW AND JUSTICE

| | 1928-9 | 1929-30 |
|--------------------------|------------|------------|
| Home Office | £433,588 | £430,783 |
| Broadway | 71,680 | 70,580 |
| Police (E. & W.) | 7,132,260 | 7,245,860 |
| Prison Service | 973,969 | 975,250 |
| Probation Service | 240,071 | 221,567 |
| Legal Services | 161,529 | 153,568 |
| Law Officers | 855,000 | 866,443 |
| Law Officers' Clerks | 143,757 | 137,566 |
| Law Officers' Expenses | 63,000 | 62,880 |
| Law Officers' Salaries | 9,657 | 8,980 |
| Law Officers' Allowances | 100,987 | 66,900 |
| Law Officers' Pensions | 12,656 | 12,325 |
| Law Officers' Gratuity | 17,530 | 17,500 |
| Total | £2,048,049 | £2,097,471 |

CLASS IV EDUCATION

| | 1928-9 | 1929-30 |
|---------------------|------------|-------------|
| Education | £1,000,000 | £1,000,000 |
| Science | 1,000,000 | 1,000,000 |
| Art | 1,000,000 | 1,000,000 |
| Music | 1,000,000 | 1,000,000 |
| Drama | 1,000,000 | 1,000,000 |
| Physical Education | 1,000,000 | 1,000,000 |
| Technical Education | 1,000,000 | 1,000,000 |
| Higher Education | 1,000,000 | 1,000,000 |
| Research | 1,000,000 | 1,000,000 |
| Total | — | £50,000,000 |

CLASS V HEALTH LABOUR AND INSURANCE

| | 1928-9 | 1929-30 |
|--------------------|------------|-------------|
| Health | £1,000,000 | £1,000,000 |
| Labour | 1,000,000 | 1,000,000 |
| Insurance | 1,000,000 | 1,000,000 |
| Board of Health | 1,000,000 | 1,000,000 |
| Board of Labour | 1,000,000 | 1,000,000 |
| Board of Insurance | 1,000,000 | 1,000,000 |
| Total | — | £50,000,000 |

LOCAL GOVERNMENT FINANCES

In addition to the State Revenue and Expenditure large amounts are received and expended by Local Authorities.

| | |
|------|------------|
| 1913 | £1,018,000 |
| 1914 | £1,018,000 |
| 1915 | £1,018,000 |
| 1916 | £1,018,000 |
| 1917 | £1,018,000 |
| 1918 | £1,018,000 |
| 1919 | £1,018,000 |
| 1920 | £1,018,000 |
| 1921 | £1,018,000 |
| 1922 | £1,018,000 |
| 1923 | £1,018,000 |

The gross rental of Rateable Hereditaments in England and Wales in 1925-26 was £360,557,031. The rateable value for the year 1925-26 was £266,307,196 and the assessable value for the Agriculture Rates for 1925-26 was £245,330,000.

PAYMENTS TO LOCAL TAXATION ACCOUNTS

In addition to the accounts raised by Local Authorities from the Rates the sum of £13,800,644 was paid by the Exchequer to Local Taxation Accounts in the financial year 1925-26.

| | |
|------|-------------|
| 1913 | £13,800,644 |
| 1914 | £13,800,644 |
| 1915 | £13,800,644 |
| 1916 | £13,800,644 |
| 1917 | £13,800,644 |
| 1918 | £13,800,644 |
| 1919 | £13,800,644 |
| 1920 | £13,800,644 |
| 1921 | £13,800,644 |
| 1922 | £13,800,644 |
| 1923 | £13,800,644 |
| 1924 | £13,800,644 |
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| 1976 | £13,800,644 |
| 1977 | £13,800,644 |
| 1978 | £13,800,644 |
| 1979 | £13,800,644 |
| 1980 | £13,800,644 |
| 1981 | £13,800,644 |
| 1982 | £13,800,644 |
| 1983 | £13,800,644 |
| 1984 | £13,800,644 |
| 1985 | £13,800,644 |
| 1986 | £13,800,644 |
| 1987 | £13,800,644 |
| 1988 | £13,800,644 |
| 1989 | £13,800,644 |
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| 2015 | £13,800,644 |
| 2016 | £13,800,644 |
| 2017 | £13,800,644 |
| 2018 | £13,800,644 |
| 2019 | £13,800,644 |
| 2020 | £13,800,644 |
| 2021 | £13,800,644 |
| 2022 | £13,800,644 |
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| 2024 | £13,800,644 |
| 2025 | £13,800,644 |
| 2026 | £13,800,644 |
| 2027 | £13,800,644 |
| 2028 | £13,800,644 |
| 2029 | £13,800,644 |
| 2030 | £13,800,644 |
| 2031 | £13,800,644 |
| 2032 | £13,800,644 |
| 2033 | £13,800,644 |
| 2034 | £13,800,644 |
| 2035 | £13,800,644 |
| 2036 | £13,800,644 |
| 2037 | £13,800,644 |
| 2038 | £13,800,644 |
| 2039 | £13,800,644 |
| 2040 | £13,800,644 |
| 2041 | £13,800,644 |
| 2042 | £13,800,644 |
| 2043 | £13,800,644 |
| 2044 | £13,800,644 |
| 2045 | £13,800,644 |
| 2046 | £13,800,644 |
| 2047 | £13,800,644 |
| 2048 | £13,800,644 |
| 2049 | £13,800,644 |
| 2050 | £13,800,644 |
| 2051 | £13,800,644 |
| 2052 | £13,800,644 |
| 2053 | £13,800,644 |
| 2054 | £13,800,644 |
| 2055 | £13,800,644 |
| 2056 | £13,800,644 |
| 2057 | £13,800,644 |
| 2058 | £13,800,644 |
| 2059 | £13,800,644 |
| 2060 | £13,800,644 |
| 2061 | £13,800,644 |
| 2062 | £13,800,644 |
| 2063 | £13,800,644 |
| 2064 | £13,800,644 |
| 2065 | £13,800,644 |
| 2066 | £13,800,644 |
| 2067 | £13,800,644 |
| 2068 | £13,800,644 |
| 2069 | £13,800,644 |
| 2070 | £13,800,644 |
| 2071 | £13,800,644 |
| 2072 | £13,800,644 |
| 2073 | £13,800,644 |
| 2074 | £13,800,644 |
| 2075 | £13,800,644 |
| 2076 | £13,800,644 |
| 2077 | £13,800,644 |
| 2078 | £13,800,644 |
| 2079 | £13,800,644 |
| 2080 | £13,800,644 |
| 2081 | £13,800,644 |
| 2082 | £13,800,644 |
| 2083 | £13,800,644 |
| 2084 | £13,800,644 |
| 2085 | £13,800,644 |
| 2086 | £13,800,644 |
| 2087 | £13,800,644 |
| 2088 | £13,800,644 |
| 2089 | £13,800,644 |
| 2090 | £13,800,644 |
| 2091 | £13,800,644 |
| 2092 | £13,800,644 |
| 2093 | £13,800,644 |
| 2094 | £13,800,644 |
| 2095 | £13,800,644 |
| 2096 | £13,800,644 |
| 2097 | £13,800,644 |
| 2098 | £13,800,644 |
| 2099 | £13,800,644 |
| 2100 | £13,800,644 |

was £84,825,592 and in Northern Ireland (on March 31, 1925) £12,945,911.

LOCAL RECEIPTS

| England and Wales 1925-26 | Scotland 1925-26 |
|---------------------------|------------------|
| £128,598,108 | £18,377,447 |
| 84,634,809 | 10,970,388 |
| 10,061,852 | 2,183,571 |
| 15,818,283 | 2,982,565 |
| 10,748,490 | 5,454,504 |
| 81,451,734 | 2,430,328 |
| 23,510,343 | 2,692,082 |
| 2,103,306 | 22,129 |
| 22,696,575 | 324,165 |
| 30,916,951 | 2,431,052 |
| 93,213,684 | 297,774 |
| | 19,246,446 |

Lenta Sales &c
Sales of Property
from Loans

Total Receipts—£478,363,615 £67,017,535

LOCAL EXPENDITURE

| Services | England and Wales 1925-26 | Scotland 1925-26 |
|----------------------|---------------------------|------------------|
| Baths | £1,737,456 | |
| Elementary Education | 39,630,852 | £11,488,096 |
| Higher Education | 15,876,459 | 2,367,064 |
| | 20,394,476 | 2,367,064 |
| | 2,077,441 | 5,972,685 |
| | 26,682,786 | 1,988,613 |
| | 14,160,138 | 3,942,192 |
| | 48,786,318 | 1,258,536 |
| | 7,667,048 | 978,509 |
| | 27,287,646 | |
| | 1,313,631 | |
| | 1,710,078 | 169,182 |
| | 3,894,866 | 634,434 |
| | 9,351,660 | 786,861 |
| | 1,567,754 | 97,942 |
| | 1,852,033 | |
| | 4,387,941 | 539,808 |
| | 20,038,918 | 2,328,059 |
| | 34,626,482 | 3,775,799 |
| | 2,112,374 | 23,047 |
| | 6,077,217 | 662,211 |

| | |
|------|------------|
| 1913 | £1,018,000 |
| 1914 | £1,018,000 |
| 1915 | £1,018,000 |
| 1916 | £1,018,000 |
| 1917 | £1,018,000 |
| 1918 | £1,018,000 |
| 1919 | £1,018,000 |
| 1920 | £1,018,000 |
| 1921 | £1,018,000 |
| 1922 | £1,018,000 |
| 1923 | £1,018,000 |
| 1924 | £1,018,000 |
| 1925 | £1,018,000 |
| 1926 | £1,018,000 |
| 1927 | £1,018,000 |
| 1928 | £1,018,000 |
| 1929 | £1,018,000 |
| 1930 | £1,018,000 |
| 1931 | £1,018,000 |
| 1932 | £1,018,000 |
| 1933 | £1,018,000 |
| 1934 | £1,018,000 |
| 1935 | £1,018,000 |
| 1936 | £1,018,000 |
| 1937 | £1,018,000 |
| 1938 | £1,018,000 |
| 1939 | £1,018,000 |
| 1940 | £1,018,000 |
| 1941 | £1,018,000 |
| 1942 | £1,018,000 |
| 1943 | £1,018,000 |
| 1944 | £1,018,000 |
| 1945 | £1,018,000 |
| 1946 | £1,018,000 |
| 1947 | £1,018,000 |
| 1948 | £1,018,000 |
| 1949 | £1,018,000 |
| 1950 | £1,018,000 |
| 1951 | £1,018,000 |
| 1952 | £1,018,000 |
| 1953 | £1,018,000 |
| 1954 | £1,018,000 |
| 1955 | £1,018,000 |
| 1956 | £1,018,000 |
| 1957 | £1,018,000 |
| 1958 | £1,018,000 |
| 1959 | £1,018,000 |
| 1960 | £1,018,000 |
| 1961 | £1,018,000 |
| 1962 | £1,018,000 |
| 1963 | £1,018,000 |
| 1964 | £1,018,000 |
| 1965 | £1,018,000 |
| 1966 | £1,018,000 |
| 1967 | £1,018,000 |
| 1968 | £1,018,000 |
| 1969 | £1,018,000 |
| 1970 | £1,018,000 |
| 1971 | £1,018,000 |
| 1972 | £1,018,000 |
| 1973 | £1,018,000 |
| 1974 | £1,018,000 |
| 1975 | £1,018,000 |
| 1976 | £1,018,000 |
| 1977 | £1,018,000 |
| 1978 | £1,018,000 |
| 1979 | £1,018,000 |
| 1980 | £1,018,000 |
| 1981 | £1,018,000 |
| 1982 | £1,018,000 |
| 1983 | £1,018,000 |
| 1984 | £1,018,000 |
| 1985 | £1,018,000 |
| 1986 | £1,018,000 |
| 1987 | £1,018,000 |
| 1988 | £1,018,000 |
| 1989 | £1,018,000 |
| 1990 | £1,018,000 |
| 1991 | £1,018,000 |
| 1992 | £1,018,000 |
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| 2021 | £1,018,000 |
| 2022 | £1,018,000 |
| 2023 | £1,018,000 |
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| 2029 | £1,018,000 |
| 2030 | £1,018,000 |
| 2031 | £1,018,000 |
| 2032 | £1,018,000 |
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| 2037 | £1,018,000 |
| 2038 | £1,018,000 |
| 2039 | £1,018,000 |
| 2040 | £1,018,000 |
| 2041 | £1,018,000 |
| 2042 | £1,018,000 |
| 2043 | £1,018,000 |
| 2044 | £1,018,000 |
| 2045 | £1,018,000 |
| 2046 | £1,018,000 |
| 2047 | £1,018,000 |
| 2048 | £1,018,000 |
| 2049 | £1,018,000 |
| 2050 | £1,018,000 |
| 2051 | £1 |

CLASS VI TRADE AND INDUSTRY

| | 1928-9 | 1929-30 |
|--|-----------|-----------|
| Board of Trade | £215 775 | £210 351 |
| Mercantile Marine Offices | 388 509 | 409 728 |
| Dept. of Overseas Trade | 320 973 | 368 783 |
| Export Credits | 90 000 | 71 240 |
| Mines Department | 176 419 | 168 203 |
| Ministry of Agriculture and Fisheries | 2 137 519 | 2 933 853 |
| Beet Sugar Subsidy | 1 250 000 | 3 000 000 |
| Forestry Commission | 485 600 | 500 000 |
| Ministry of Transport | 106 302 | 107 060 |
| Development Fund | 400 000 | 300 000 |
| Scientific and Industrial Research Dept. | 446 220 | 446 214 |
| Scotland | | |
| Board of Agriculture | 450 179 | 484 047 |
| Fishery Board | 65 855 | 65 845 |

Total — £9 258 000

| CLASS IX MISCELLANEOUS | 1928-9 | 1929-30 |
|------------------------------|----------|----------|
| Australian Zinc Concentrates | £535 200 | £731 050 |

| CLASS X GRANTS | 1928-9 | 1929-30 |
|-----------------------------------|-----------|-------------|
| To Paving Authorities (E. and W.) | — | £12 000 000 |
| Railway Freight Rebates | 1 000 000 | 2 333 333 |
| Private Mineral Pits | 20 000 | 27 000 |

| Scotland | 1928-9 | 1929-30 |
|-----------------------|--------|-----------|
| To Rating Authorities | — | 2 200 000 |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

| | 1928-9 | 1929-30 |
|--|--------|---------|
| | — | — |

THE ARMY ESTIMATES

The Army Estimates show a net re- for the year 1929-30 of £505,000. The of men on the establishment of the exclusive of those serving in India, is a decrease of 5,000.

| | 1928-9 | 1929-30 |
|--|-------------|---------|
| Pay &c of the Army | £9 023 000 | £8 |
| Territorial Army and Reserve Forces | 5 399 000 | 5 |
| Medical Services | 1 023 000 | |
| Educational establishments | 885 000 | |
| Quartering and move- ments | 1 436 000 | 1 |
| Supplies post trans- port and remounts | 5 140 000 | 5 |
| Clothing | 1 129 000 | 1 |
| General stores | 2 332 000 | 2 |
| Warlike stores | 2 242 000 | 2 |
| Works buildings and lands | 3 040 000 | 3 |
| Miscellaneous effec- tive services | 2 177 000 | 2 |
| War Office | 653 000 | |
| Half pay retired pay and other non effec- tive charges for officers | 3 580 000 | 3 |
| Pensions and other non effective charges for warrant officers, non commissioned officers, men and others | 4 329 000 | 4 |
| Civil superannuation, compensation and gratities | 232 000 | 2 |
| | £41 050,000 | £40.3 |

THE AIR ESTIMATES

The Air Estimates show a decrease 1929-30 of £50,000. There is also a red- uction in the numbers, all- against 32,500 in 1928-9.

| | 1928-9 | 1929-30 |
|--|-------------|---------|
| | £3 402 000 | £3.3 |
| | 2 711 000 | 2.6 |
| | 6 367 000 | 6.3 |
| | 3 700 000 | 3.7 |
| | 310 000 | 3 |
| | 304 000 | 3 |
| | 554 000 | 5.5 |
| | 415,000 | 4.1 |
| | 221,000 | 2.2 |
| | 657 000 | 6.5 |
| | 208 000 | 2.0 |
| | £16 050 000 | £16.0 |

| | | | |
|-----------------------|------------------|--------|-------------------|
| years 1928-1933 are - | | | |
| 1928 £78 500 000 | 1931 £72 000 000 | Greece | <u>£3 100 000</u> |
| " " " | | | £378 300 000 |

THE NATIONAL DEBT

to the late

1914
 £276,101
 2,391
 21,724
 811,031
 253,664
 13,643

£1,487,487

£12,537

£700,000
 37,000
 12,804
 2,184,418
 79,684
 362,057
 223,119
 320,909
 15,640
 680,594
 361,176
 767
 2,737

Internal Debt

£6,500,853

1914 to 1914 4/1 185

In the financial year 1914-15 and in the five subsequent years the Great War caused enormous increases the aggregate of the National Debt standing at its highest point (£7,878,607,166) on March 31, 1920 while the cost of interest and the payment increased from £24,500,000 in 1914-15 to £349,598,616 in 1920-21.

Gross Total of the National Debt
(1918 and 1920)

On March 31, 1918 and 1920 the aggregate National Debt consisted of the following totals—

| | 1918 | 1920 |
|-------------------|-----------------------|-----------------------|
| External Debt | £1,095,229,463 | £1,084,684,258 |
| Internal Debt | 6,432,587,415 | 6,510,823,896 |
| Other Liabilities | 103,155,792 | 120,515,893 |
| | <u>£7,630,972,670</u> | <u>£7,716,023,947</u> |

Cost of the Debt

(Financial Year 1918-20)

Interest—

The External Debt

The Debt payable abroad was stated at following totals on March 31, 1920—

Due to

| | |
|------------------------------|-----------------------|
| United States — | |
| Government Loan — — — — | £915,000,000 |
| 5½% Ten Year Bonds (1920) | 412,800,000 |
| 5½% Twenty Year Bonds (1927) | 29,500,000 |
| Other Outstanding — | 2,800,000 |
| | <u>£1,649,100,000</u> |

Total to U.S.A.

| | |
|--|------------|
| Straits Settlements — | 4,315,000 |
| 5% Loan (1920) | — |
| Allied Governments — | 23,300,000 |
| France — | 20,000,000 |
| Russia — | — |
| Italy (repayable by instalments commencing Sept. 15, 1920) — | 21,950,000 |

External Debt — £1,684,665,000

* See Estimated Assets * 1919-20

The Debt to U.S.A.

Interest is being paid on £ 11 9 100 000 000

THE NATIONAL DEBT.

by the

£24

2

217

253

13

- £2 687 1

£125

£700 00

27 00

12 80

2,184,411

77 60

382,050

223,119

346,394

15 60

620,504

361,281

787 1

1,752 0

Internal Debt

£6 510 83 6

915,000,000

410 00

29,503 00

1 60

£944 919 10

On March 31, 1928 and 1929 the aggregate National Debt consisted of the following

| | 1928 | 1929 |
|-------------------|-----------------------|-----------------------|
| Internal Debt | £1,095,329,453 | £1,084,684,258 |
| External Debt | 6,438,587,415 | 6,510,823,896 |
| Other Liabilities | 103,155,792 | 120,515,693 |
| | <u>£7,630,972,670</u> | <u>£7,695,823,547</u> |

Cost of the Debt.

(Financial Year 1928-29.)

| | Total to U.S.A. |
|--|-----------------------|
| Straits Settlements | — |
| 5% Loan (1929) | 4,315,000 |
| Allied Governments | — |
| Prussia | 25,500,000 |
| Russia | 20,000,000 |
| Italy (repayable by instalments commencing Sept 15 1926) | 21,950,000 |
| External Debt | <u>£2,084,684,258</u> |

* See "Estimated Results" 1928-29

Interest is being paid on all the loans & is paid

THE NATIONAL DEBT

The National Debt was raised almost entirely for foreign wars. There was a trifling sum of £664,363

100
 £ 276 20
 21
 23 64
 £ 1
 £ 10 51
 £ 700 29
 37 05
 10 76
 2 184 45
 70 68
 382 05
 203 16
 340 90
 15 54
 680 50
 301 21
 78
 1 75
 £ 510 80

1914 was 2,662,473 765.

In the financial year 1914-15 and in the five subsequent years the Great War caused enormous increases the aggregate of the National Debt standing at its highest point (£7 758 607 156) on March 31, 1920 while the cost of interest and Management increased from £24 300 000 in 1914-15 to £349 508 618 in 1920-21.

Gross Total of the National Debt
(1928 and 1929)

On March 31, 1948 and 1949 the aggregate National Debt consisted of the following totals —

| | | | |
|-------------------|-----------------------|----------------|---|
| External Debt | £1 095 229 463 | P. n | n |
| Internal Debt | 6 432 587 415 | n | n |
| Other Liabilities | 203 255 792 | n | n |
| | <u>£7 630 972 670</u> | £7 600 853 547 | |

Cost of the Debt

(Financial Year 2028-29)

Interest

Yes

No

Total

The program will

The Debt payable abroad was stated at following totals on March 31 1929 -

| Due to | |
|------------------------------|-------------------|
| United States — | |
| Government Loan | £943,000 |
| 5½% Ten Year Bonds (1929) | 41 |
| 5½% Twenty Year Bonds (1927) | 25.30 |
| Other Outstanding | — |
| Total to U.S.A | £944,971 |
| Straits Settlements — | |
| 5% Loan (1929) | 43 |
| | 53.30 |
| | 20.00 |
| | 21.99 |
| External Debt | £2,064,581 |

External Debt

* See "Estimated Value" in 5th Col.

The Dept to USA

The Debt to U.S. Government fixed the

by Parliament Debt reduction is also made
 of *Terminable Annuities*, the capital
 of which is deducted from the Debt
 at the expiration of the term for which the

March 31, 1929

£1,632,016
 £55,203 securities

Estimated Assets.

External Debt of £1,084,684,258
 may be set the amount

of £1,084,684,258
 and the esti-
 of Investments made by the British
 in various loans and undertakings,
 below (as on March 31, 1929) —

400,000
 52,950

Other Countries

£1,400,000

£1,400,000

of annuities Annuity Payments due

£3,100,000

£3,100,000

1929 60,000,000
 1930 60,000,000
 1933 71,000,000

Sums outstanding on March 31, 1929 re-
 payments of instalments of principal and interest

Relief & Loans

Austria £9,038,860
 Belgium 9,000,000
 Belgian Congo 3,600,000
 Poland 4,483,800
 Romania 2,000,000
 Yugoslavia 2,037,821
 Czechoslovakia 124,500
 Estonia 240,256
 Hungary 21,718

tion of the annuities
 the redemption of debt when so determined

Other Debts

| | |
|----------------|-----------|
| Latvia | £ 263 807 |
| Estonia | 917 300 |
| Czechoslovakia | 639 960 |
| Poland | 106 446 |
| Lithuania | 90,000 |
| Greece | 75 948 |
| Rumania | 25 378 |

£3 103 733

a. NOT FUNDED

Capital Sums owing on March 31 1928.

Allied Powers

| | |
|------------|------------|
| France | £2,643 315 |
| Italy | 4 000 000 |
| Portugal | 300 000 |
| Greece | 200 000 |
| Yugoslavia | 200 000 |
| Rumania | 150 000 |

£12 891 315

In addition to the payments on account of interest the Dominions repaid £2 940 500 on Capital Account, and other countries £438 460

War Debts

Nov 10, 1927

etc. £2 759 946 (including £912 379 101 A. I. J. Public Works Loan Board £863 809 from Government of India for interest £578 570 from Anglo-Persian Oil Co. for dividends on shares etc.) and by the following receipts—

Interest on Floating Loans &c.—

| | |
|----------------|----------|
| Austria | £106 964 |
| Belgium | 450 000 |
| Belgian Congo | 180 000 |
| Czechoslovakia | 45 873 |
| Estonia | 52 113 |
| Hungary | 2 172 |
| Latvia | 63 176 |
| Poland | 234 603 |
| Rumania | 122 447 |
| Yugoslavia | 103 054 |

£2 248 438

Interest &c. on War Loans—

Dominions and Colonies.

| | |
|---------------------|------------|
| Australia | £4 158 036 |
| New Zealand | 339 796 |
| South Africa | 457 530 |
| Newfoundland | 20 563 |
| Crown Colonies, &c. | 30,195 |

£6 006 120

Defaulting Debtors.

The Council of Foreign Bondholders reported in 1927 that a total of £2 782 544 091 of principal owing by States which do not pay their debts, in addition to over £486 000,000 for interest due. The principal defaulter is Russia (£2 746 274 486) and included in the list are certain Southern States of the U.S.A. and certain cities of America.

Ex Enemy Property

The 7th Annual Report of the Controller of the Clearing Office and Administrator of German, Austrian, Hungarian and Bulgarian Property shows the total sum paid by the Clearing Office to British creditors and claimants to Oct. 1 1927 in respect of their claims against the Nations in Germany.

German Administration.

| | |
|----------------------------|-------------|
| Debts | £21 255 333 |
| Prize costs of liquidation | 20 051 040 |
| Compensation | 23 205,000 |

Total .. £64 473 773

| | |
|--------------------------------|-------------|
| <i>Austrian Administration</i> | |
| Debts | £ 3 319 885 |
| Proceeds of liquidation | 459 864 |
| Compensation | 809 514 |
| Total | £ 4 586 863 |

| | |
|---------------------------------|-------------|
| <i>Hungarian Administration</i> | |
| Debts | £ 2 003 072 |
| Proceeds of liquidation | 6 101 |
| Compensation | 76 853 |

| | |
|---------------------------------|-----------|
| <i>Bulgarian Administration</i> | |
| Debts | £ 375 581 |
| Proceeds of liquidation | nil |
| Compensation | 64 378 |
| Total | £ 459 959 |

Summarising the figures for all the Administrations the Report states that a total of £9,605,816 has been paid to British claimants against Germany, Austria, Hungary and Bulgaria. In all 424,000 claims admitted and 107

of population. This provision indicated the view of the Dawes Committee that the "standard" rate of annuity did not exhaust

Sources of the Payments

It is from tax revenue that the additional 750,000,000 GM (£37,500,000) to be paid in 1928-9 as compared with 1927-8 should be applied making the total of the Budget con

PETROLEUM OUTPUT OF THE WORLD (Thousands of barrels of 42 gallons)

| COUNTRY | 1926 | 1927 |
|---------|--------|--------|
| | 6 500 | 8 700 |
| | 6 446 | 14 600 |
| | 2 188 | 2 270 |
| | 2 725 | 8 800 |
| | 2 900 | 1 700 |
| | 90 000 | 64,300 |
| | 22 200 | 21 400 |
| | 15 400 | 36 800 |
| | 10,762 | 9,800 |
| | 5 815 | 5,800 |
| | 27,299 | |
| | 61 000 | |

PRICE OF THE FUNDS 1930 1938 AND 1939

| | Dec 31 1930 | Nov 2 1938 | Nov 5 1939 |
|-------------------------|----------------|---------------|---------------|
| 1½% Consols | 44½ | 55½ | 59½ |
| % Consols | | 87 | 82½ |
| % War Loan | 82½ | 101½ | 100 |
| % Funding | 68 | 89 | 84½ |
| ½% Conversion | | 77½ | 73 |
| % Victory Bonds | 72½ | 94½ | 90½ |
| % Local Loans Stock | 50½ | 64½ | 61 |
| Bank of England Stock | 165 | 261½ | 247½ |
| % Corp. of London Stock | 85 | 103½ | 101 |
| % L.C.C. Stock | 85½ | 103½ | 100½ |
| % Port of Lond B Stk | 62½ | 84½ | 78½ |

DOWN ON SECURITIES

| | 1934-45 | 1938-45 | 1939-45 |
|--------------------------|---------|---------|---------|
| Australia 5½ (1934-45) | 99½ | 96 | 96 |
| Canada 4½ (1940-60) | 72 | 91½ | 87 |
| Japan 3½ (1929-49) | 60½ | 82½ | 80½ |
| Sol 1 Cons 6½ (1945-70) | 100 | 113 | 109½ |
| V 9 IV 5½ (1935-55) | | 59 | 52 |
| New Zealand 4½ (1943-63) | | | 83½ |
| Nigeria 6½ (1949-79) | 99½ | 115½ | |
| 2 Iceland 6½ (1930-40) | 97½ | 102 | |
| 3 Africa 6½ (1930-40) | | 101½ | 100 |
| 3 Aust 6½ (1930-40) | | 105 | 101 |
| Straits 8 4½ | | 99 | |

AVERAGE PRICE OF CONSOLS

| Month | 1914 | 1928 | 1939 |
|-----------|----------|-----------|----------|
| January | £ 23 0 0 | £ 55 10 6 | £ 56 7 3 |
| February | 26 6 3 | 55 6 0 | 55 12 7 |
| March | 28 2 6 | 55 7 2 | 54 17 11 |
| April | 25 15 0 | 55 8 4 | 55 4 5 |
| May | 24 15 0 | 56 13 6 | 54 21 11 |
| June | 24 5 0 | 56 11 10 | 54 10 8 |
| July | 24 16 3 | 55 14 3 | 54 9 8 |
| August | No price | 55 16 4 | 53 17 8 |
| September | | 55 12 17 | 53 4 10 |
| October | | 55 12 7 | 53 10 7 |
| November | | 56 7 6 | — |
| December | | 56 6 11 | — |

BRITISH SUGAR BEET

| | 1934-35 | 1936-37 |
|--|-------------|---------------|
| Acres under sugar beet | 22 637 | 129 463 |
| Average yield in tons per acre | 8 2 | 8 63 |
| Tonnage of beet delivered to factories | 183 723 | 1 117 072 |
| Average output of sugar per acre of beet grown | 2 367 lb. | 2 656 lb. |
| Production of sugar | 478 308 cwt | 3 069 730 cwt |
| | £ 400 200 | £ 3 375 713 |

Profits from Businesses Professions Certain Employments and Certain Interests

| | England | Scotland | Ireland |
|----------------|--------------|-------------|---------|
| £ | £ | £ | £ |
| 450 671 285 | 47 523 953 | 4 830 347 | |
| 39 551 699 | 406 | 57 796 | |
| 420 407 777 | 42,041 938 | 5 905 3 6 | |
| 168 975 076 | 16 522,407 | 1 649 854 | |
| 380 829 | 5 862 | 1 640 | |
| 81 973 543 | 14 203 677 | 1 028 381 | |
| 77 536 674 | 3 770,477 | 695 006 | |
| £1 239,476 683 | £124,053 690 | £14 238 316 | |
| 283,993 774 | 24 503 213 | 5 396 259 | |
| £955 532 909 | £99 556,477 | £18,842 007 | |

Total Gross Income
Exemptions and Reductions
Total Actual Income

INCOME TAX ASSESSMENTS (SCHEDULE E), 1926-27

Salaries of Government Corporation and Public Company Officials

| England | Scotland | Northern Ireland |
|--------------|-------------|------------------|
| £ | £ | £ |
| 85 033 688 | 837,674 | 1 544 347 |
| 7 498 859 | | 8 757 009 |
| 576 762 780 | 52 308 216 | 747 433 |
| 193 912 813 | 16 887,728 | |
| £863 206 170 | £70 933 616 | £11 042 783 |
| 70,266 464 | 3 786 009 | 1,253,135 |
| £792,939 706 | £74 719 625 | £12,295,918 |
| 179,776 224 | 15 923 237 | 583,163 |
| 613 163 482 | 58 796 388 | 9 202,855 |
| £794,939 677 | £67 147 609 | £10,786,018 |

Total Gross Income
Exemptions and Reductions

Net Income —
Wages of Manual Earners
Other Assessments

Total Actual Income

OLD AGE (Non Contributory) PENSIONS

Table of the number of persons receiving Old Age Pensions in 1912, 1919 and 1924, to

the same house—
Where the combined means of husband and wife (with a deduction not exceeding £78 from the combined means other than earnings) do not exceed—
£32 per year 102
£32 per year to £63 81
£63 to £73 per year 62
£73 per year to £84 42
£84 to £94 per year 22
£94 per year to £99 15
Exceeds £99 152
If each is pensionable each would receive above weekly pension

Weekly Pension.

Where the yearly means (with a deduction not exceeding £39 from means not derived from earnings) do not exceed

£26 5s 102
£26 5s to £31 10s 81
£31 10s to £36 15s 62
£36 15s to £42 42
£42 to £47 5s 22
£47 5s to £49 17s 6d 152
Where the yearly means exceed £49 17s 6d No pension

No pension

Old Age Pensions in force on March 31, 1928

| | ENGLAND | WALYS (including Monmouth) | SCOTLAND | TOTAL |
|--------|---------|----------------------------|----------|---------|
| At 100 | 828 391 | 33 820 | 90 470 | 978 621 |
| " 80 | 6 282 | 330 | 583 | 7 200 |
| " 60 | 5 465 | 297 | 505 | 6 267 |
| " 50 | 9 | — | 1 | 10 |
| " 40 | 5 027 | 246 | 440 | 5 713 |
| " 30 | — | — | — | — |
| " 20 | 2 852 | 247 | 211 | 3 310 |
| " 10 | 851 | 36 | 70 | 957 |
| Total | 848 877 | 34 876 | 92 225 | 995 978 |

Pensioners dead since March 31, 1927

83 985 6 374 10 650 101 009

Number of Old Age Pensions payable on the 31st March in each of the years stated—

| | 1914 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | Total |
|----------|-------|-------|-------|-------|------|------|------|--------|
| England | 6 282 | 5 465 | 5 027 | 2 852 | 851 | — | — | 20 477 |
| Wales | — | — | — | — | — | — | — | — |
| Scotland | — | — | — | — | — | — | — | — |
| Ireland | — | — | — | — | — | — | — | — |

WIDOWS AND ORPHANS AND OLD AGE (Contributory) PENSIONS

Under the Widows, Orphans and Old Age Contributory Pensions Act on Oct 31

| | 1914 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | Total |
|----------|--------|--------|--------|--------|--------|--------|--------|---------|
| England | 22 381 | 26 017 | 25 506 | 25 030 | 25 670 | 23 238 | 20 688 | 189 026 |
| Wales | — | — | — | — | — | — | — | — |
| Scotland | — | — | — | — | — | — | — | — |
| Ireland | — | — | — | — | — | — | — | — |
| Total | 22 381 | 26 017 | 25 506 | 25 030 | 25 670 | 23 238 | 20 688 | 189 026 |
| Orphans | — | — | — | — | — | — | — | — |
| Widows | — | — | — | — | — | — | — | — |
| Total | 22 381 | 26 017 | 25 506 | 25 030 | 25 670 | 23 238 | 20 688 | 189 026 |

NATIONAL HEALTH INSURANCE, 1928.

Persons entitled to benefits—

| | | | | |
|---------|-----------|-----------|-----------|-----------|
| Males | 1,234,000 | 1,234,000 | 1,234,000 | 1,234,000 |
| Females | 1,234,000 | 1,234,000 | 1,234,000 | 1,234,000 |
| Total | 2,468,000 | 2,468,000 | 2,468,000 | 2,468,000 |

Receipts—

| | | | | |
|-------------------|-----------|-----------|-----------|-----------|
| Contributions | 1,234,000 | 1,234,000 | 1,234,000 | 1,234,000 |
| Government Grants | 1,234,000 | 1,234,000 | 1,234,000 | 1,234,000 |
| Private Insurance | 1,234,000 | 1,234,000 | 1,234,000 | 1,234,000 |
| Other | 1,234,000 | 1,234,000 | 1,234,000 | 1,234,000 |
| Total | 3,736,000 | 3,736,000 | 3,736,000 | 3,736,000 |

Expenditure on

| | | | | |
|-------------|-----------|-----------|-----------|-----------|
| Benefits | 1,234,000 | 1,234,000 | 1,234,000 | 1,234,000 |
| Sickness | 1,234,000 | 1,234,000 | 1,234,000 | 1,234,000 |
| Disablement | 1,234,000 | 1,234,000 | 1,234,000 | 1,234,000 |

Cost of Administration—

| | | | | |
|---|-----------|---------|-----------|---------|
| Approved Societies and Co-operative Societies | 3,222,000 | 459,000 | 4,121,000 | 80,200 |
| Central Department | 895,000 | 95,000 | 990,000 | 43,000 |
| Total | 4,117,000 | 554,000 | 4,671,000 | 123,200 |

NATIONAL HEALTH INSURANCE FUND

The accounts of the National Health Insurance Fund (England) show the following balances as at December 31, 1927—

| | |
|---|-------------|
| Approved Societies Account | £88,002,028 |
| Navy, Army and Air Force Insurance Fund | 1,456,633 |

THE WAR BONUS.

In order to counteract the increase in the Cost

Where the ordinary rate of remuneration does not exceed 30s. per week—30 per cent. increase.

Where the ordinary rate of remuneration exceeds 30s. per week but does not exceed £100 per annum—30 per cent. on the first 35s. a week (£91 3s. per annum) and 50 per cent. on the excess over £91 3s. Where the ordinary rate of remuneration exceeds £100 per annum—30 per cent. on the first £91 3s.

Scale of Bonus on Salaries from £700 to £800, 50 per cent. on salaries from £800 to £900, and 50 per cent. on the excess over £900. In the case of salaries of £800 a year.

Details of the Bonus in Addition to Salaries and Wages under the scale in force for 6 months from Sept. 1929 are shown below—

| Annual Salary | * Bonus Sept. 1929. | Weekly Wages. | * Bonus Sept. 1929. |
|---------------|---------------------|---------------|---------------------|
| £ | £ s d | s d | s d |
| 90 | 58 10 | 15 0 | 9 1 |
| 150 | 76 10 | 15 0 | 9 9 |
| 200 | 94 10 | 15 0 | 10 5 |
| 300 | 114 0 | 20 0 | 13 0 |
| 400 | 136 10 | 30 0 | 19 6 |
| 500 | 159 9 | 40 0 | 24 3 |
| 600 | 163 15 | 50 0 | 27 3 |
| 700 | 173 15 | 60 0 | 30 3 |
| 800 | 181 11 | 70 0 | 32 11 |

PRODUCTION AND INDUSTRY OF GREAT BRITAIN AND IRELAND

Occupations of the People

According to the Census

Agriculture

| Classes. | Men. | Women | Total. |
|-------------------------|-----------|-----------|-----------|
| Agriculture and Fishing | 1 300 106 | 83 218 | 1 383 324 |
| Clerks & Typists | 568 034 | 429 695 | 997 729 |
| Commerce and Transport | 1 483 713 | 559 636 | 2 043 349 |
| Domestic Service | 339 094 | 1 676 425 | 2 015 519 |
| Government and Defence | 442 125 | 44 800 | 486 925 |

| Productive Acreage 1928. | | | |
|--------------------------|-----------|------------|------------|
| 1928 | Arable | Pasture | Total |
| England (d) | 9 474 000 | 23 266 000 | 32 740 000 |
| Wales (e) | 635 000 | 1 131 000 | 1 766 000 |
| Scotland | 3 133 000 | 1 532 000 | 4 665 000 |
| Ireland | (a) | (a) | (a) |
| Isle of Man | 58 000 | 22 000 | 80 000 |
| Channel Islands | (a) | (a) | (a) |

(a) Figures not available

(b) Including Monmouth

(c) Including Monmouth

Acreage under Crops

| Crop | 1926* | 1927* | 1928 |
|------------------------------------|-----------|-----------|----------|
| Wheat Barley | 7 380 204 | 7 127 484 | 6 963 1 |
| Oats &c | 3 957 812 | 3 923 378 | 3 843 0 |
| Potatoes turn- ips swedes &c | 25 599 | 23 004 | 23 8 |
| Hops | 93 914 | 93 697 | 88 9 |
| Small fruit† | 423 789 | 429 593 | 473 8 |
| Grasses and Clover | 3 987 216 | 3 957 252 | 3 943 12 |

* Excluding Isle of Man and Channel Islands.

† Excluding Monmouth.

(c) Rest Britain only

Van her of Live Stock
The Live Stock of Great Britain and Ireland
was valued at £300 000 000 in 1928

| Live Stock. | 1926* | 1927* | 1928* |
|-------------|------------|------------|-----------|
| Horses | 1 782 627 | 1 722 934 | 1 685 26 |
| Cattle | 22 064 564 | 22 231 465 | 22 103 92 |
| Sheep | 27 594 373 | 28 328 753 | 27 866 27 |
| Pigs | 3 387 978 | 4 302 449 | 4 528 229 |

* Excluding Isle of Man and Channel Islands.

† Figures for rest of Britain are the total numbers of horses on agricultural holdings & for Ireland those used for agriculture & unbroken horses only

Produce
Totals of the principal crops of Great Britain and Ireland for three years

| | 1926 | 1927 | 1928 |
|----------|----------------|----------------|----------------|
| Wheat | Tons 1 397 000 | Tons 1 332 000 | Tons 1 365 000 |
| Barley | 1 170 000 | 1 093 000 | 1 015 000 |
| Oats | 3 172 000 | 3 097 000 | 3 041 000 |
| Potatoes | 6 663 000 | 7 354 000 | 7 045 000 |
| Furnips | 22 488 000 | 22 753 000 | 22 913 000 |
| Maize | 8 851 000 | 7 106 000 | 7 400 000 |
| Hay | 14 450 000 | 13 116 000 | 12 216 000 |

Scotland

| Classes | Men | Women | Total |
|----------------------------|-----------|-----------|-----------|
| Agriculture and Fishing | 292 501 | 4 364 | 296 865 |
| Clerks & Typists | 59 487 | 67 966 | 127 453 |
| Commerce and Transport | 286 372 | 94 258 | 380 630 |
| Domestic Service | 31 738 | 168 149 | 199 887 |
| Government and Defence | 40 085 | 6 067 | 46 152 |
| Mines & Quarries | 151 884 | 2 368 | 154 252 |
| Professional | 42 378 | 44 570 | 86 948 |
| Others | 738 732 | 227 050 | 965 782 |
| Total of Classes | 1 543 277 | 636 022 | 2 179 299 |
| Unoccupied Total (over 12) | 1 221 228 | 1 331 041 | 2 552 269 |
| Total (over 12) | 1 771 228 | 1 967 123 | 3 738 351 |

Great Britain

| Classes | Men | Women | Total |
|----------------------------|------------|------------|------------|
| Agriculture and Fishing | 1 392 607 | 107 582 | 1 500 189 |
| Clerks & Typists | 627 521 | 497 661 | 1 125 182 |
| Commerce and Transport | 1 707 085 | 653 794 | 2 360 879 |
| Domestic Service | 311 682 | 1 844 574 | 2 156 256 |
| Government and Defence | 431 410 | 77 948 | 509 358 |
| Mines & Quarries | 1 163 633 | 6 732 | 1 170 365 |
| Professional | 319 208 | 404 952 | 724 160 |
| Others | 8 417 749 | 1 108 121 | 9 525 870 |
| Total of Classes | 13 665 865 | 5 701 424 | 19 367 289 |
| Unoccupied Total (over 12) | 11 018 441 | 11 965 514 | 22 983 955 |
| Total (over 12) | 15 672 436 | 17 666 938 | 33 339 374 |

Fisheries

Tonnage and Value of Fish Landed 1928.

| Kind of Fish. | ENGLAND AND WALES | | SCOTLAND | | IRELAND* | | Total | |
|-----------------|-------------------|------------|----------|-----------|----------|-----------|---------|------------|
| | Tons | Value (£) | Tons | Value (£) | Tons | Value (£) | Tons | Value (£) |
| Cod | 135 335 | 2 631 681 | 29 859 | 613 772 | 1 006 | 46 195 | 166 201 | 3 301 648 |
| Haddock | 157 250 | 2 065 952 | 51 458 | 1 005 825 | 184 | 5 088 | 248 892 | 3 076 805 |
| Plaice | 11 000 | 1 065 952 | 11 000 | 1 065 952 | 11 000 | 1 065 952 | 33 000 | 3 200 000 |
| Hake | | | | | | | | |
| Skates and Rays | | | | | | | | |
| Whiting | | | | | | | | |
| Herring | | | | | | | | |
| Mackerel | | | | | | | | |
| Other | | | | | | | | |
| Total | | | | | | | | |
| Shell Fish | | | | | | | | |
| Grand Total | | 13 613 141 | | 4 756 074 | | 405 156 | | 18 774 371 |

* The figures for Ireland are not confirmed.

Mineral Production (Great Britain)

| Minerals won 1927 | 1927 | 1928 |
|------------------------------|-------------|-------------|
| Coal | 251 238 000 | 183 544 000 |
| Metalliferous Ore | | |
| Iron | 21 212 000 | 3 241 000 |
| Tin | 4 000 | 621 000 |
| Lead | 20 000 | 296 000 |
| Zinc | 3 000 | 14 000 |
| For Chemical Industries, &c. | | |
| Salt | 1 983 000 | 1 435 000 |
| Barytes and Witherite | 47 000 | 83 000 |
| Gypsum | 506 000 | 312 000 |
| China Clay &c | 1 124 000 | 1 503 000 |
| Oil Shale | 1 960 000 | 616 000 |
| For Smelting | | |
| Fluorspar | 36 000 | 40 000 |
| Gastrol and Silica | 569 000 | 209 000 |
| Fireclay | 2 417 000 | 909 000 |
| For Building and Road making | | |
| Limestone | 14 21 000 | 14 21 000 |
| Sandst | | |
| Slate | | |
| Clay as | | |
| Gravel | | |
| Igneous | | |

Coal Production of Great Britain.

| Year | Persons employed. | Output | |
|------|-------------------|-------------|-------------|
| | | Tons | Value |
| 1913 | 1 104 406 | 287 411 869 | 245 535 169 |
| 1914 | 1 130 681 | 263 250 897 | 213 745 612 |
| 1915 | 1 148 479 | 250 808 763 | 219 907 528 |
| 1916 | 1 203 290 | 276 000 528 | 259 734 377 |
| 1917 | 1 213 724 | 267 218 000 | 251 665 000 |
| 1918 | 1 102 441 | 243 176 000 | 208 978 000 |
| 1919 | 1 115 640 | 252 279 000 | 213 324 000 |
| 1920 | 1 011 610 | 252 252 000 | 213 344 000 |
| 1921 | | 245 205 000 | |

In 1921 there was a stoppage of production for 88 days ending in a settlement on June 24. In 1926 there was a stoppage of production from May 2 until Nov 30.

Home Consumption of Coal.

In a normal year about 200 000 000 tons of coal are consumed in the Home.

The sel
of oil 101
The tons
at the 3

Coal Production of World.

| Country | Tons of 2,240 lbs. | |
|-----------------|----------------------|----------------------|
| | 1927 | 1928 |
| Belgium .. | 27,500,000 | 27,543,000 |
| Canada .. | 12,400,000 | 12,420,000 |
| Czechoslovakia | 14,900,000 | 15,170,000 |
| France .. | 51,600,000 | 52,429,000 |
| Germany .. | 153,600,000 | 150,876,000 |
| Great Britain | 260,000,000 | 245,795,000 |
| Indian Empire | 21,700,000 | 21,660,000 |
| Japan .. | 30,300,000 | 31,200,000 |
| Netherlands | 9,200,000 | 10,200,000 |
| Poland .. | 37,400,000 | 40,518,000 |
| Russia .. | 31,200,000 | 34,100,000 |
| Saar .. | 13,600,000 | 13,107,000 |
| South Africa | 12,000,000 | 12,168,000 |
| United States | 556,800,000 | 516,632,000 |
| Other Countries | 50,000,000 | 51,000,000 |
| Total | 1,222,400,000 | 1,235,638,000 |

† Excluding 1 griffe

‡ Coal 51 454 grs. May 1 to Nov 30 1928

Miners' Welfare Fund

The Output and Royalties Welfare Levy Account as at June 1 —

Output Levy Account.

| Year | Receipts | Interest | Total |
|--------------|--------------------|-----------------|--------------------|
| 1920-25 .. | £5,444,344 | * £430,706 | £5,855,050 |
| 1925 .. | 5,213,608 | | |
| 1927 .. | 5,011,207 | 190,183 | 5,201,390 |
| 1928 .. | 697,666 | | |
| Total | £17,657,599 | £620,894 | £18,278,493 |

| Year | Royalties Welfare Levy Account | Total Credits |
|--------------|--------------------------------|-------------------|
| 1920-25 .. | £196,000 | £5,855,464 |
| 1926 .. | 181,000 | |
| 1927 .. | 196,000 | 3,216,299 |
| 1928 .. | | |
| Total | £553,000 | £8,871,763 |

Iron Ore

| Year | Tons Produced | Tons Imported |
|---------|---------------|---------------|
| 1923 .. | 25,997,000 | 7,441,000 |
| 1924 .. | 21,057,000 | 5,817,131 |
| 1925 .. | 10,848,000 | 4,289,068 |
| 1926 .. | 4,022,825 | 2,087,385 |
| 1927 .. | 21,206,871 | 5,263,793 |

Production of Pig Iron and Crude Steel.

The quantity of pig iron and steel ingots and castings made is shown below. In 1928 the

| Country | Pig Iron. Thousands of Tons (2,240 lb.) | | Crude Steel. Thousands of Tons (2,240 lb.) | |
|-----------------|---|---------------|--|----------------|
| | 1927 | 1928 | 1927 | 1928 |
| Belgium .. | 3,685 | 3,905 | 3,645 | 3,934 |
| France .. | 9,150 | 10,097 | 8,100 | 9,387 |
| Germany .. | 12,850 | 12,804 | 15,975 | 14,517 |
| Gr. Britain | 7,350 | 8,717 | 9,200 | 8,662 |
| Indian Empire | 2,000 | 2,016 | 355 | 600 |
| Japan .. | 2,225 | 2,300 | 1,615 | 1,800 |
| Luxemburg | 2,675 | 2,720 | 2,420 | 2,572 |
| Russia .. | 2,930 | 3,372 | 3,485 | 4,273 |
| Saar .. | 1,760 | 1,936 | 1,890 | 2,071 |
| United States | 36,600 | 38,612 | 44,450 | 52,216 |
| Other Countries | 4,815 | 6,857 | 7,785 | 9,755 |
| Total | 85,040 | 88,386 | 99,140 | 109,789 |

‡ Figures for Crude Steel include ingots only and exclude steel castings 1,237,500 tons in 1928

Joint Stock Companies

Trade Unions.

| Great Britain | | 1926 | 1927 |
|---------------|--|-----------|-----------|
| No. of Unions | | 1,129 | 1,127 |
| Membership — | | | |
| Males | | 4,401,356 | 4,159,929 |
| Females | | 807,042 | 792,108 |
| Total | | 5,208,398 | 4,952,037 |
| Income — | | £ | £ |
| Expenditure — | | | |
| Benefit — | | | |

| | | |
|-------------------|------------|------------|
| Funds — | | |
| Beginning of Year | 12,586,920 | 8,468,612 |
| End of Year | 8,478,371 | 12,709,538 |

Bankruptcy Statistics
England and Wales (1927).

The number of debtors adjudicated was 4,234 with liabilities £8,224,794, and £1,739,263 of compositions, 35, with £1,470,571 and assets £83,449 of admini-

orders for deceased debtors estates 45, with liabilities £96,653 and assets £27,777. In addition there were 185 assignments composed of 10 under the 1st arrangement and 175 under the 2nd arrangement.

Co-operative Trading Societies.
In 1927 General Productive Societies numbered 254 with 30,479 members sales £7,046,108.

| | 1921. | 1922. | 1923. | 1924. |
|-------|-----------|-----------|-----------|-----------|
| Men | 1,682,449 | 835,786 | 1,001,677 | 829,157 |
| Boys | 102,116 | 32,111 | 39,476 | 35,486 |
| Women | 695,952 | 149,908 | 217,644 | 206,263 |
| Girls | 99,912 | 32,312 | 36,437 | 32,094 |
| Total | 2,580,429 | 1,050,117 | 1,295,234 | 1,102,940 |

The Unemployment Fund

Receipts and Payments of the Unemployment Fund from Nov 8 1920 to March 31 1928 —

| | Year ended Mar 31 1929. | Total to March 31 1928 |
|--|-------------------------------|------------------------------|
| Receipts | £ | £ |
| Interest | 4,259 | 1,132,674 |
| Other Receipts | 10,052 | 262,823 |
| Total | 43,199,800 | 321,760,505 |
| Payments | | |
| Benefit | | |
| Compensatory Payments at age of 50 (Sec 9 of Act 1924) | 18,274 | 1,520,544 |
| Interest on Advances | 1,160,377 | 4,136,126 |
| Other Payments and Reimbursements | 184,829 | 1,615,067 |
| Total | 42,777,616 | 368,649,145 |

Debit Balance of Fund at end of year £24,627,423
Treasury Advances Outstanding £24,530,000

| Year | Cases | | Compensation | |
|------|-------|-----------|--------------|-----------|
| | Fatal | Non Fatal | Fatal | Non-Fatal |
| 1913 | 3,741 | 468,687 | 590,865 | 2,135,287 |
| 1914 | 2,483 | 379,089 | 544,643 | 1,744,316 |
| 1915 | 2,664 | 463,609 | 593,794 | 1,771,373 |
| 1916 | 2,865 | 472,091 | 782,911 | 1,771,373 |
| 1917 | 3,019 | 458,869 | 866,567 | 1,771,373 |
| 1918 | 2,312 | 356,234 | 672,351 | 1,771,373 |
| 1919 | 2,581 | 441,503 | 770,210 | 1,771,373 |

Persons Covered by the Act 1927

| Employment | No. | Cases | |
|-----------------------|-----------|-------|-----------|
| | | Fatal | Non-Fatal |
| Factories | | | |
| Cotton | 535,313 | 28 | 12,463 |
| Wool &c | 185,196 | 20 | 3,753 |
| Other Textiles | 277,069 | 9 | 3,209 |
| Wood | 233,076 | 34 | 5,362 |
| Metals | 379,338 | 209 | 31,621 |
| Engineering &c | 407,545 | 206 | 22,999 |
| Other Metal | 865,027 | 247 | 43,570 |
| Paper and Printing | 333,624 | 128 | 5,390 |
| China and Earthenware | 74,779 | 7 | 1,697 |
| Miscellaneous | 2,231,435 | 281 | 63,656 |
| Total | 5,414,900 | 785 | 126,124 |
| Docks | 154,799 | 112 | 13,230 |
| Mines | 1,052,344 | 1,130 | 122,963 |
| Quarries | 77,393 | 29 | 8,614 |
| Constructional | 124,320 | 67 | 8,440 |
| Railways | | | |
| Clerical | 86,418 | | 105 |
| Other | 428,478 | 229 | 20,120 |
| Total Railways | 514,896 | 229 | 20,225 |
| Shipping | | | |
| Steam | 198,424 | 218 | 7,000 |
| Sailing | 4,468 | 8 | 364 |
| Total Shipping | 202,892 | 226 | 7,364 |
| Grand Total | 7,552,546 | 1,350 | 244,303 |

EXTERNAL TRADE (GREAT BRITAIN AND NORTHERN IRELAND)

In statistics of Trade the term **GENERAL TRADE** refers to the whole volume of Imports (including such as are temporarily detained and the charges for Insurance and Freight), whereas Exports are taken at their F.O.B. (free on board) value which includes only the Cost of

| General Trade (Merchandise). | | | | Special Trade (Merchandise). | | | |
|------------------------------|-----------------|-----------------|----------------------|------------------------------|-----------------|-----------------|---------------------|
| Year | General Imports | General Exports | Total General Trade. | Year | Special Imports | Special Exports | Total Special Trade |
| | £ | £ | £ | | £ | £ | £ |
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| Movement and Classes | 1927 | 1928 |
|---|-----------------------|-----------------------|
| Imports — | | |
| Food Drink and Tobacco | £538,526 622 | £531,912 557 |
| Raw Materials and Articles mainly unmanufactured | 351,739 719 | 334,819 690 |
| Articles wholly or mainly manufactured | 322,412,540 | 318,016 455 |
| Animals not for food | 2,653 196 | 3,064 520 |
| Parcel Post non-dutiable Articles | 3,009 074 | 9,127 132 |
| Total Imports | £1,218,341 150 | £1,206,940 354 |
| Exports of United Kingdom Produce and Manufactures — | | |
| Food Drink and Tobacco | £52,278 502 | £54,271 761 |
| Raw Materials and Articles mainly unmanufactured | 76,352 169 | 70,168 532 |
| Articles wholly or mainly manufactured | 563,913 782 | 578,622 519 |
| Animals not for food | 1,898 216 | 2,905 333 |
| Parcel Post — | 14,638 794 | 18,363 310 |
| Total Exports of United Kingdom Produce and Manufactures | £709,082 263 | £723,427 455 |
| Total Exports of Imported Merchandise | £122,952 836 | £120,352 491 |
| In ports of Bullion and Specie | £39,622 000 | £58,000 000 |
| Exports of Bullion and Specie | 5,200 000 | 51,700 000 |
| Excess of Imports over Exports of Merchandise Bullion and Specie | £389,700,000 | £359,500 000 |

IMPERIAL PREFERENCE

Imperial Preference on articles produced in and consumed from the British Empire was in

| Articles | Non Preferential | Preferential |
|----------|-------------------|--------------|
| | 66,513 000 | 349,274 000 |
| | 76 000 | 921,000 |
| | 167 000 | 153 000 |
| | 787 000 | 982 000 |
| | 16,981 000 | 2,740,000 |
| | 22,054 000 | 9,650 000 |
| | 118,450 000 | |
| | 2,432,000 | |
| | £4,787 000 | £1 08 |

Britain's Best Customers

Total Exports of British and Imported Merchandise to —

| | 1907 | 1908 |
|--------------------|-------------|-------------|
| India | £85,349,000 | £85,087,000 |
| U.S.A. | 66,940,000 | 68,736,000 |
| Germany | 69,415,000 | 67,354,000 |
| Australia | 63,755,000 | 57,920,000 |
| France | 43,094,000 | 43,712,000 |
| Canada | 31,369,000 | 36,849,000 |
| Irish Free State | 45,570,000 | 44,771,000 |
| Union of S. Africa | 32,049,000 | 23,249,000 |
| Belgium | 25,258,000 | 27,347,000 |
| Netherlands | 26,045,000 | 26,647,000 |
| Argentina | 27,603,000 | 31,776,000 |
| New Zealand | 20,398,000 | 20,059,000 |
| Japan | 15,393,000 | 14,824,000 |
| China | 9,811,000 | 13,853,000 |
| Italy | 15,776,000 | 16,472,000 |

9 months (1908) Imports £885,074,000

7 months (1909) Imports £897,111,807

† Provisional figures.

Total Exports of British and Imported Merchandise by Months, 1925, 1926 and 1927

| | 1925 | 1926 | 1927 |
|-----------|-------------|-------------|-----------|
| January | £81,334,173 | £70,849,518 | £76,692,2 |
| February | 83,209,864 | 68,902,037 | 65,965,2 |
| March | 83,079,815 | 76,125,302 | 68,609,8 |
| April | 73,287,548 | 66,223,073 | 70,600,2 |
| May | 76,703,466 | 70,375,701 | 77,007,9 |
| June | 69,493,391 | 70,343,493 | 59,399,1 |
| July | 70,202,599 | 69,338,469 | 74,467,7 |
| August | 74,337,667 | 70,373,443 | 70,065,2 |
| September | 71,260,698 | 63,475,676 | 61,220,0 |
| October | 80,459,406 | 73,207,000 | — |
| November | 74,515,622 | 74,399,588 | — |
| December | 80,413,128 | 69,473,647 | — |

Total Exports £626,505,712

Total Exports £627,849,274

British Exports per Head

Value of Exports of Manufacture to certain population of the

| Country | 1907 | 1908 | 1909 |
|--------------------|---------|--------|--------|
| British Empire | 3 10 8 | 3 19 2 | 4 2 2 |
| Australia | 6 5 | 17 10 | 13 0 |
| Canada | — | — | — |
| Ceylon | — | — | — |
| India | — | — | — |
| Irish Free State | — | — | — |
| Malaya | — | — | — |
| New Zealand | — | — | — |
| Union of S. Africa | — | — | — |
| West Africa | — | — | — |
| Foreign Countries | — | — | — |
| Argentina | 3 0 6 | 2 10 2 | 2 15 7 |
| Belgium | 1 14 8 | 2 1 11 | 2 8 10 |
| Brazil | 10 8 | 7 10 | 8 8 |
| Chile | 1 14 11 | 1 6 3 | 1 6 |
| China | — | — | — |
| Cuba | 18 7 | 11 9 | 9 |
| Denmark | 2 0 11 | 2 16 5 | 2 15 1 |
| Egypt & Sudan | 18 11 | 14 0 | 12 |
| France | 14 6 | 11 6 | 12 |
| Germany | 12 11 | 13 1 | 12 |
| Italy | 8 3 | 6 8 | 7 |
| Japan | 5 2 | 4 6 | 4 |
| Netherlands | 2 10 2 | 2 16 0 | 2 17 2 |
| Do East Indies | 3 10 | 2 4 | 3 |
| Norway | 2 9 11 | 2 13 8 | 2 17 2 |
| Sweden | — | 7 | 4 |
| Switzerland | 2 1 | 5 5 | 5 8 |
| U.S.A. | — | — | — |

Postal Traffic

1925-26

AVERAGE MONTHLY POSTAL TRAFFIC

| Period | 1904 | 1907 | 1908 | 1909 |
|--------|---------|---------|---------|---------|
| Jan. | 117,608 | 119,433 | 120,666 | 124,827 |
| Feb. | 113,699 | 116,345 | 122,406 | 120,052 |
| Mar. | — | — | — | 127,031 |
| Apr. | — | — | — | — |
| May | — | — | — | — |
| June | — | — | — | — |
| July | — | — | — | — |
| Aug. | — | — | — | — |
| Sept. | — | — | — | — |
| Oct. | — | — | — | — |
| Nov. | — | — | — | — |
| Dec. | — | — | — | — |

Corn Prices

at end of 190

Money remitted to the Chancellor of the Exchequer by Sundry Persons for Consols "Take etc." varies in amount from year to year as will be seen from the following table —

| Year | Received | Year | Received |
|---------|-------------|---------|-------------|
| 1913-14 | £1,005 7 11 | 1915-16 | £1,427 1 0 |
| 1914-15 | 6 224 4 8 | 1916-17 | 9 931 18 4 |
| 1915-16 | 3 724 0 7 | 1917-18 | 10 475 3 8 |
| 1916-17 | 8 679 2 1 | 1918-19 | 14 985 16 7 |

Period

| Period | Wheat | Barley | Oats |
|--------------------------|-------|--------|------|
| Week ended Oct. 12, 1907 | 9 4 | 10 4 | 7 10 |
| C. 1907-1908 | — | — | — |
| 1905 | 10 4 | 12 5 | 8 1 |
| 1906 | 11 2 | 13 4 | 9 1 |
| 1907 | 10 6 | 14 2 | 8 2 |
| 1908 | 9 5 | 10 10 | 8 2 |

DETAILED TRADE OF 1927 AND 1928

| Class and Group | Imports (I.F.) | | Special Exports (F.O.B.) | |
|---|----------------------|----------------------|--------------------------|--------------------|
| | 1927 | 1928 | 1927 | 1928 |
| Food, Drink and Tobacco— | | | | |
| Grain and Flour | £ 110 969 996 | £ 9 637 377 | £ 5 597 815 | £ 5 338 083 |
| Feeding stuffs for Animals | 8 418 244 | 9 185 875 | 2 955 391 | 2 333,110 |
| Meat | 103 464 070 | 109 248 909 | 1 069 532 | 1 629 978 |
| Animals, Living for Food | 15 510 297 | 16 034 355 | 142 261 | 172 728 |
| Other Food and Drink Non-Dutiable | 104 741 934 | 173 879 013 | 33 508 977 | 34 434 135 |
| Other Food and Drink Dutiable | 110 243 609 | 108 21 33 | | |
| Tobacco | 19 178 473 | 17 825 115 | 8,404 526 | 9 363 791 |
| Total | 538 526 621 | 531 912 557 | 52 278 502 | 54 272 761 |
| Raw Materials and Articles mainly Unmanufactured— | | | | |
| Coal | 6 612 420 | 39,496 | 45 539 795 | 39 061 644 |
| Other Non-Metallic Mining and Quarry Products and the like | 6 258 322 | 5 606 703 | 1 895 654 | 1 898 816 |
| Iron Ore and Scrap | 5 702 578 | 4 822 484 | 877 620 | 1 104 564 |
| Non-Ferrous Metaliferous Ores and Scrap | 15 700 099 | 10 522 609 | 1 949 330 | 1 285 722 |
| Wood and Timber | 49 666 787 | 42 505 243 | 539 738 | 445 980 |
| Raw Cotton and Cotton Waste | 67 754 604 | 82,707 221 | 1 217 901 | 1 381 618 |
| Wool Laid and Waste and Woven Rags | 63 816 344 | 63 922 920 | 10 471 194 | 10 290 034 |
| Raw Rubber and Crumbs | 1 828 518 | 1 899 967 | 72 322 | 37 508 |
| " " " " " " " " | 16 131 464 | 13 981 365 | 233 489 | 540 757 |
| " " " " " " " " | 45 090 534 | 44 746 420 | 5 449 147 | 5 378 994 |
| " " " " " " " " | 23,018 506 | 26 057 403 | 2 579 480 | 3 088 716 |
| " " " " " " " " | 12 788 663 | 10 151 792 | 1 367 363 | 1 429 547 |
| " " " " " " " " | 25 417 228 | 11 839 360 | 293 276 | 255 613 |
| Miscellaneous Raw Materials and Articles Mainly Unmanufactured | 11 954 452 | 11 936 907 | 3 874 800 | 1 468 029 |
| Total | 351 739 719 | 334 819 690 | 76 351 169 | 70 168 532 |
| Manufactures— | | | | |
| " " " " " " " " | 134 906 | 9 609 | 3 656 561 | 3 671 419 |
| " " " " " " " " | 11 865 882 | 10 895 429 | 13 011 648 | 17 076 303 |
| " " " " " " " " | 34,032 026 | 24 158 492 | 69 381 416 | 68 801 570 |
| " " " " " " " " | 32 592 542 | 33 115,018 | 19 862 012 | 26 373 738 |
| " " " " " " " " | 7 304 644 | 7 632 408 | 8 828 534 | 9 137 605 |
| " " " " " " " " | 4 256 833 | 4 712 335 | 11 878 275 | 11 629 120 |
| " " " " " " " " | 15 919 046 | 16 721 443 | 49 220 843 | 53 749 131 |
| " " " " " " " " | 7 213 937 | 2,425 850 | 2 316 957 | 2 902 790 |
| " " " " " " " " | 9 915 407 | 10 732 848 | 148 794 922 | 145 304 242 |
| " " " " " " " " | 16 096 809 | 17 288 125 | 56 755 255 | 56 896 582 |
| " " " " " " " " | 16 182 162 | 24,465 141 | 1 426 687 | 1 406 061 |
| " " " " " " " " | 15 784 605 | 25 612 307 | 27 060 722 | 29 464 139 |
| Apparel | 18 659 308 | 19 606 025 | 25 824 536 | 26 182 721 |
| " " " " " " " " | 25 502 422 | 15 367 796 | 23 402 723 | 25 414 223 |
| " " " " " " " " | 38 620 362 | 27 822 129 | 9 222 860 | 8 955 592 |
| " " " " " " " " | 10 759 934 | 19 506 931 | 8 344 068 | 9 209 046 |
| " " " " " " " " | 16 429 946 | 17 269 921 | 9 132 264 | 9 292 897 |
| " " " " " " " " | 22 120 721 | 9 565 349 | 35 414 271 | 46 965 401 |
| " " " " " " " " | 2 591 683 | 3 349 368 | 3 297 629 | 3 444 968 |
| Rubber Manufactures | 30 320 306 | 31 749 859 | 35 438 877 | 37 990 042 |
| Miscellaneous Articles Wholly or Mainly Manufactured | 322 412 520 | 318,016 455 | 363 913 782 | 378 822 519 |
| Total | 322 412 520 | 318,016 455 | 363 913 782 | 378 822 519 |
| Animals, not for Food | 2 653 196 | 3,064 520 | 1 898 016 | 1 995 323 |
| Parcel Post (non-dutiable articles) | 3 009 074 | 9,127 121 | 14 638 794 | 18 363 |
| Total | 1 218 341 150 | 1 266 940 354 | 709 022 263 | 722 |

FINANCES AND TRADE OF THE BRITISH DOMINIONS

| Dominions by Continents | Revenue | Debt | Imports | | Exports | |
|--------------------------|------------|-------------|-------------|------------|-------------|------------|
| | | | Total | from U.K. | Total | to U.K. |
| Europe | £ | £ | £ | £ | £ | £ |
| Irish Free State | 30 000 000 | 40 000 000 | 60 000 000 | 40,500 000 | 46 300 000 | 40 000 000 |
| Isle of Man | 300 000 | 66 000 | — | — | — | — |
| Jersey | 235 000 | 531 000 | — | — | — | 43,450 000 |
| Guernsey | 229 000 | 562 000 | — | 4 451 000 | — | — |
| Malta and Gozo | 861 000 | — | 4 500 000 | 1 369 000 | 1 200 000 | 31 000 |
| Cibraltar | 163 000 | — | — | 876 000 | — | 16 000 |
| Asia | | | | | | |
| Indian Empire | 95 500 000 | 680 000 000 | 225 000 000 | 86 000 000 | 260 000 000 | 65 000 000 |
| Ceylon | 8 000 000 | 9 000 000 | 24 000 000 | 6 110 000 | 33 000 000 | 10 670 000 |
| Straits Settlements | 6 000 000 | 28 000 000 | 150 000 000 | 11 740 000 | 140 000 000 | 16 591 000 |
| Federated Malay States | 10 000 000 | 11 000 000 | 16 000 000 | 3 361 000 | 48 000 000 | 5 000 000 |
| Other Malay States | 3 000 000 | 2 000 000 | 4 000 000 | — | 5 000 000 | — |
| Hong Kong | 2 815 000 | 2 000 000 | 45 000 000 | 5 001 000 | 41 000 000 | 477 000 |
| Welshpool | 25 000 | — | 600 000 | — | 500 000 | — |
| North Borneo | 400 000 | — | 860 000 | 77 000 | 2 000 000 | 385 000 |
| Brunei | 36 000 | 50 000 | 100 000 | — | 230 000 | — |
| Sarawak | 600 000 | — | 1 300 000 | 136 000 | 6 000 000 | 24 000 |
| Cyprus | 670 000 | 200 000 | 1 600 000 | 312 000 | 1 200 000 | 337 000 |
| Iraq | 4 000 000 | — | 8 000 000 | 4 822 000 | 4 000 000 | 1 700 000 |
| Palestine | 2 000 000 | — | 5 000 000 | 780 000 | 1 600 000 | 1 593 000 |
| Africa | | | | | | |
| Union of South Africa | 29 000 000 | 222 000 000 | 74 000 000 | 36 000 000 | 81 000 000 | 50 000 000 |
| Basutoland | 282 000 | — | 851 000 | 38 000 | 760 000 | — |
| Bechuanaland | 107 000 | — | — | 11 000 | — | — |
| So.thern Rhodesia | 1 600 000 | 3 000 000 | 5 000 000 | — | 6 000 000 | 2 042 000 |
| Northern Rhodesia | 2 371 000 | — | 1 300 000 | 1 927 000 | 400 000 | — |
| Gambia | 190 000 | 214 000 | 620 000 | 330 000 | 730 000 | 57 000 |
| Gold Coast | 6 000 000 | 12 000 000 | 10 000 000 | 5 789 000 | 11 000 000 | 3 155 000 |
| Sierra Leone | 950 000 | 1 730 000 | 2 200 000 | 946 000 | 2 000 000 | 600 000 |
| Nigeria and Cameroon | 8,000,000 | 20 000 000 | 27 000 000 | 9 076 000 | 18 000 000 | 7 555 000 |
| Somaland | 50 000 | — | 370 000 | 17 000 | 150 000 | 4 000 |
| Kenya | 2 600 000 | 8 300 000 | 8 100 000 | 2 821 000 | 10 000 000 | 3 021 000 |
| Uganda | 2 500 000 | — | 255 000 | — | — | 403 000 |
| Tanganyika | 1 600 000 | — | 3 000 000 | 1 160 000 | 1 000 000 | 1 000 000 |
| Zanzibar and Pemba | 500 000 | 100 000 | 2 000 000 | 271 000 | 1 000 000 | 176 000 |
| Nyasaland | 330 000 | 512 000 | 600 000 | 256 000 | 350 000 | 1,250,000 |
| Sudan | 5,300,000 | — | 5 500 000 | 1 976 000 | 4 000 000 | 2 910 000 |
| Mauritius | 1 300 000 | 1 700 000 | 4 200 000 | 251 000 | 3 000 000 | 2 814 000 |
| Seychelles | 52 000 | 7 000 | 130 000 | 34 000 | 170 000 | 31 000 |
| St. Helena and Ascension | 20,000 | — | 60,000 | 66 000 | 50 000 | 40 000 |
| America | | | | | | |
| Canada | 91 000 000 | 445 000 000 | 200 000 000 | 40 000 000 | 170 000 000 | 81 000 000 |
| Newfoundland | 2 000 000 | 13 000 000 | 7 250 000 | 937 000 | 4 800 000 | 2,243 000 |
| Jamaica | 2 000 000 | 4 600 000 | 6 000 000 | — | 4 000 000 | — |
| Bahamas | 500 000 | 250 000 | 1 760 000 | — | 500 000 | — |
| Leeward Islands | 250 000 | — | — | — | — | — |
| Windward Islands | 280 000 | 280 000 | 200 000 | — | 730 000 | — |
| Barbados | 500 000 | 600 000 | 2 600 000 | — | 1 900 000 | — |
| Trinidad and Tobago | 1 700 000 | 3 500 000 | 4,400 000 | — | 5,200 000 | 841 000 |
| British Guiana | 1 100 000 | 2 700 000 | 3 000 000 | 1 804 000 | 3 000 000 | 113 000 |
| British Honduras | 200 000 | 150 000 | 1 000 000 | 193 000 | 750 000 | 2 000 |
| Bermuda | 250 000 | 45 000 | 1 400 000 | 427 000 | 270 000 | — |
| Falkland Islands | 170 000 | — | — | — | — | 79 000 |
| South Georgia &c. | — | — | 480 000 | 367 000 | 3 000 000 | — |
| Oceania | | | | | | |
| Australia | 31 000 000 | 537 000 000 | 144 000 000 | 63 000 000 | 245 000 000 | 51 000 000 |
| New Zealand | 23 600 000 | 264 000 000 | 45 000 000 | 23 000 000 | 37 000 000 | 264 000 |
| Tonga | 550 000 | 2 272 000 | 2 000 000 | 312 000 | 1 250 000 | 74 000 |
| Fiji | 180 000 | — | 1,000,000 | 50 000 | 1 200 000 | — |
| Pacific Islands | 200 000 | — | 2 000 000 | 33 000 | 1 000 000 | — |

COMMUNICATIONS.
Roads.

1909 the grants hitherto made out of the Road Fund towards the maintenance of classified

| | 1909 Rate No. of Vehicles. | Tax Receipts | Independent. | Amount of Grants. | 1909 Cost of |
|--|-------------------------------------|-----------------|--|----------------------|-----------------|
| Cars taxed on horse power | 877,000 | £ 358,140 | Railway owned | 1,145 | 2,037,000 |
| Motor-cycles | 597,000 | 1,673,742 | Thames | 126 | 31,000 |
| Invalid vehicles | 1,000 | 247 | Caledonian and C. & N. | 70 | 82,000 |
| Goods vehicles— | | | Total | 2,879 | £5,684,000 |
| (a) Internal combustion and steam driven— | | | A Royal Commission reported in 1909 in favour of development under an <i>Inland Waterway Board</i> , to improve the existing system. Their principal proposal was the formation of four main routes (from a centre in South Staf | | |
| (b) Showmen & Special Vehicles | 1,100 | 22,447 | | | |
| Trade licences— | | | | | |
| (a) General | 3,900 | 94,298 | | | |
| (b) Limited | 1,700 | 22,222 | | | |
| Foreign vehicles | | | | | |
| Horse-drawn vehicles— | | | | | |
| (a) Private | | | | | |
| (b) Hackneys | | | | | |
| Miscellaneous receipts (fees for driving licences &c.) | | | | | |

Tramways.

The total mileage of tramways in Great Britain and Northern Ireland in 1909 was 1,145 miles.

Posts, Telegraphs and Telephones

The carriage and custody of the mails has been maintained by the State from time immemorial. The telegraph...

Work of the Post Office

Letters &c. delivered 6,200,000,000 6,230,000,000
Parcels of all kinds 1,100,000 1,100,000

Post accounts in the Post Office Savings Bank with the sum of £10,000,000

Amount £37,150,000 £48,840,000
Willows & Stephens £1,310,000 £1,300,000
£7,590,000 £7,500,000
£330,000 £340,000

| Year | Subscribed | Net (excl. Inter- national) |
|---------|-------------|--------------------------------------|
| 1913-14 | £75,607,798 | £8,134 |
| 1914-15 | 66,314,526 | 3,285 |
| 1915-16 | 97,923,218 | 8,704 |
| 1916-17 | 78,379,471 | 24,941 |
| 1917-18 | 41,195,943 | 29,74 |
| 1918-19 | 93,338,708 | 26,19 |
| 1919-20 | 39,673,030 | 17,364 |
| 1920-21 | 43,208,520 | 37,981 |
| 1921-22 | 34,225,344 | 29,586 |
| 1922-23 | 25,115,670 | 28,778 |
| 1923-24 | 21,924,514 | 35,676 |
| 1924-25 | 27,408,766 | 46,784 |
| 1925-26 | 41,873,775 | 43,08 |

other events
other events

For full official information see the Post Office Guide, price 1s., published in January and July.

INLAND POSTAL SERVICES

Within Gt. Britain and Northern Ireland and
including Channel Is. and Isle of Man.

Letters.

jewellery, or found open and containing stamps,
uncrossed bearer cheques, &c., 10s. or more in
value, or any marked "registered" and found in
a letter box, undergo compulsory registration
(3-1), carrying no compensation.

RECOMPENSATION for loss or damage is granted,
not as a legal right even if fee is paid
being adequate. — The fees for com-
pulsive of registration are — fee

Letter Post (4 x 1 inch)

Among pro
duces certain
fish game and
L of Man Ch

Postage (are
address side
(4 x 1 inch))

For forwarding

The cover
and y return
title is for
returning to
return if a
return not
from their
returning to

LONDON POSTAL ARRANGEMENTS

London is divided for postal (not telegraphic) delivery purposes into 2 districts and these into 32 numbered

(City and District) Mails (see Paddington) 8.45 a.m. P.O.
 9.0 a.m. P.O. only 9.30 a.m. At RAILWAY TERMINI
 (but on 1st item or writing carriages) London Bridge
 11.45 a.m. 1.30 p.m. (Kent, F. Sussex) Liverpool St

... to ... Norway Spain and Year | 6d to 2s 6d 1s, 3s to 15s, 1s d, 15s 6d up
The name of payee must be inserted within 2

NAME

and

MONEY ORDER

PAYMENT 2/ Inland (and to

[Abbreviated addresses, it is
num are inserted gratis in Wells Direct at
8 & 9, Johnson's Court, Fleet
E.C. 4.] Original or redacted
replies sent on Sundays, as
or Christmas Eve

Reply
yourself
its value
Reverly
sometimes
ry with
telegram
ice with
limit 0
on the fr
(in 12
0 7 p.m.
ns (see 6
olidays, 1

POSTAL ORDERS

at orders are issued and paid at

[Great Northern R. Co. ... with Fleet St. ... and Home
office marked (L) ... with addition of inner
(common T) ... downberry ... at 1s. 6d.
... and 2s. 6d. ...

the name of confusion with some telegraph office is otherwise possible if name of nearest coast station is given in the message and the P. O. station

CIVIL AVIATION STATISTICS.

B. Long-distance Communication with certain ships beyond range of ordinary stations. 1. Via P. O. station

(International Civil Flying commenced on Aug 26 1910)

1 The P. O. coast stations are—Fullercoats, Fishguard, Hummer, Llandudno, Malin Head, Nilton, North London, Portpatrick, Sealby, Valencia, Wick. 2 P. O. station—Cost of Transmissions etc.

AIR MAILS.

AIR MAIL SERVICES change frequently Details of services, time saved, and fees payable are embodied in the official Air Mail Leaflet which can be obtained free of charge through any Post Office

| Division | Fatal | Non fatal | Fatal | Non fatal |
|---------------------|-------|-----------|-------|-----------|
| England & Wales | 4 236 | 208,846 | 4,581 | 117,239 |
| Scotland | 567 | 10,638 | 614 | 11,909 |
| Northern Ireland .. | 71 | 1,311 | 200 | 1,118 |
| Totals | 4,874 | 220,795 | 5,395 | |

London

In 1912 there were 1,217 deaths from accidents in the London area an increase on the total for 1911

AIR SERVICES.

The Air Port of London (Croydon Aerodrome)

SHIPBUILDING, 1928 29

THE total of new tonnage to which classes

The following services are in operation for the Winter Season 1919-1920 —

Imperial Airways Ltd., Airways House, Charles Street, St James S.W.1.—Daily—from London (Croydon) to Paris (2½ hours), and thence to Leeds and Zurich.

Imperial Airways Ltd.—Weekdays only—from London (Croydon) to Brussels (3 hours) and

Imperial Airways Ltd and A B Aerotrans

7 days
Air Union Aerial Transport 52 Haymarket
S W 2.—Daily—from London (Croydon) to
Paris (a) 1/2 hours Lyons Marseilles and
Geneva

German Line (Deutsche Luft Hansa A G)

Country

No. of
residents

T 4 4
Letter

Great Britain and Ireland
British Dominions
Danzig
Denmark

| | | |
|-----|---|---------|
| 353 | 1 | 101 725 |
| 18 | | 21 613 |
| 3 | | 10 844 |
| 23 | | 121 958 |
| 6 | | 81 423 |
| 12 | | 66 859 |
| 11 | | 47 400 |
| 19 | | 84 895 |
| 32 | | 94 547 |
| 8 | | 22 134 |
| 14 | | 32 092 |
| 18 | | 100 179 |
| 19 | | 15 164 |

which was a defect on sea routes

Results

$$\frac{I_{\text{average of } T \text{ image}}}{I_{\text{employed}}}$$

April 1911 June 1911

East Indies

17 22 20 42

15 53 10 55

15 00 24 30

| | |
|-------|-------|
| 12 50 | 14 39 |
| 12 24 | 13 30 |

11:35 14:01

| | |
|-------|-------|
| 11.35 | 14.01 |
| 0.15 | 0.01 |

915 981
748 815

457 64c

437 041

428

■ ■ ■ ■ ■

Departed
1927

Total

256,240
1,378,200
2,504,000
2,550,000
7,784,738
493,580
2,576,000
755,731
1,576,371
264,430
30,000
800,000
612,587
2,654,000
906,716
2,561,600
2,466,736
11,325,885
16,753,600
2,855,731
2,422,225
7,823,106
607,000
2,794,600
5,415,737
107,324
981,430
9,643,540
1,822,000
3,330,400
651,905

| Class of Boat | Sailing | | Steam and Motor | |
|----------------------|---------|----------|-----------------|----------|
| | No. | Net tons | No. | Net tons |
| 15 net tons and over | 308 | 15,910 | 3,796 | 218,308 |

Hull
Liverpool
London
Manchester
Middlesbrough
Newcastle & Shields
Newhaven
Newport
Plymouth
Portsmouth
Port Talbot
Southampton
Sunderland
Swansea
Weymouth

12,839,715
200,378,997
3,318,373
4,401,834
6,344,864
596,355
2,746,005
5,844,358
91,590
708,839
9,811,835
2,382,260
2,705,600
687,007
384,749
206,660
192,567
651,008
3,979,707
2,183,100
1,734,882
1,478,502
466,416

Open to Sea by Flag 1927

| Flag | Entered | Cleared |
|------------|------------|------------|
| 55,834,754 | 26,301,107 | |
| 1,488,804 | 1,400,215 | |
| 2,573,763 | 2,508,736 | |
| 4,479,531 | 4,527,821 | |
| 4,723,642 | 4,876,569 | |
| 1,125,807 | 1,185,301 | |
| 1,213,774 | 1,263,844 | |
| 800,126 | 815,411 | |
| 4,998,106 | 5,004,660 | |
| 6,252,685 | 4,284,745 | |
| 116,867 | 217,112 | |
| 390,060 | 404,844 | |
| 1,500,510 | 1,510,000 | |
| 2,411,890 | 2,438,156 | |
| 3,405,861 | 3,390,346 | |
| 957,308 | 1,009,319 | |
| Tal | 90,442,373 | 91,266,980 |

| | | | |
|------|------------|------------|-------------|
| 1913 | 82,748,569 | 82,661,012 | 164,809,581 |
| 1926 | 82,278,323 | 82,607,817 | 164,886,140 |
| 1927 | 90,442,373 | 91,266,980 | 181,739,353 |
| 1928 | 91,015,000 | 92,263,000 | 183,278,000 |

Sweden
U.S.A.
Other Flags

British and Foreign Tonnage Entered

| Year | British | Foreign |
|------|------------|------------|
| 1913 | 46,602,930 | 35,545,649 |
| 1926 | 53,270,145 | 39,608,738 |
| 1927 | 55,834,000 | 34,608,000 |
| 1928 | 56,352,000 | 34,257,000 |

Clearance Tonnage

| Year | Arrived | Departed |
|------|------------|------------|
| 1913 | 65,273,828 | 65,111,001 |
| 1926 | 47,816,934 | 47,115,001 |
| 1927 | 50,664,517 | 50,379,357 |
| 1928 | 51,861,000 | 51,667,000 |

THE KINGDOM OF ENGLAND.

.....

WHERE the figures for the Administrative County are smaller than those for the Geographical County or Shire the difference is accounted for by the exclusion of County Boroughs

| County or Shire and Administrative Headquarters | Geographical Boundaries | | Administrative Boundaries | |
|---|-------------------------|------------|---------------------------|------------|
| | Area | Population | Area | Population |
| ... | 302 943 | 206 478 | 302 943 | 206 478 |
| ... | 463 830 | 294 807 | 454 715 | 202 533 |
| ... | 479 360 | 236 209 | 479 360 | 236 209 |
| ... | 315 168 | 129 594 | 315 168 | 129 594 |
| ... | 657 950 | 1 025 423 | 640 792 | 625 001 |
| ... | 868 167 | 320 559 | 868 167 | 320 559 |
| ... | 973 086 | 273 037 | 968 598 | 220 437 |
| ... | 650 369 | 214 539 | 643 007 | 584 703 |
| ... | 1 671 364 | 709 488 | 1 660 948 | 440 023 |
| ... | 615 611 | 228 258 | 615 611 | 228 258 |
| ... | 649 244 | 1 468 506 | 633 053 | 943 670 |
| ... | 238 073 | 73 778 | 238 073 | 73 778 |
| ... | 979 532 | 1 468 341 | 964 443 | 918 111 |
| ... | 205 842 | 757 668 | 785 068 | 329 277 |
| ... | 958 896 | 910 333 | 935 195 | 410 223 |
| ... | 538 924 | 113 118 | 538 924 | 113 118 |
| ... | 404 523 | 333 236 | 404 523 | 333 236 |
| ... | 233 985 | 54 748 | 233 985 | 54 748 |
| ... | 975 965 | 1 141 867 | 972 990 | 1 118 129 |
| ... | 1 204 555 | 4 928 359 | 1 054 742 | 1 746 418 |
| ... | 532 779 | 494 522 | 524 197 | 260 332 |
| ... | 1 705 193 | 622 105 | 163 355 | 85 225 |
| ... | 263 255 | 85 225 | 160 122 | 208 237 |
| ... | 469 122 | 108 237 | 263 800 | 260 294 |
| ... | 972 796 | 408 623 | 74 172 | 4 469 523 |
| ... | 74 850 | 4 483 249 | 148 692 | 1 253 104 |
| ... | 128 692 | 1 253 104 | 345 048 | 358 331 |
| ... | 340 552 | 450 700 | 1 303 568 | 322 914 |
| ... | 1 315 064 | 504 277 | 582 679 | 211 597 |
| ... | 585 148 | 302 430 | 1 278 692 | 407 397 |
| ... | 1 291 515 | 746 138 | 529 188 | 308 476 |
| ... | 540 123 | 641 134 | 474 501 | 122 506 |
| ... | 479 220 | 129 558 | 53 464 | 46 954 |
| ... | 53 464 | 46 954 | 1 87 273 | 12 368 |
| ... | 97 273 | 12 368 | 861 800 | 242 959 |
| ... | 861 800 | 242 959 | 1 032 442 | 307 034 |
| ... | 1 037 594 | 465 682 | 707 177 | 211 003 |
| ... | 741 318 | 1 349 225 | 549 241 | 211 623 |
| ... | 948 269 | 399 988 | 390 916 | 108 982 |
| ... | 517 353 | 291 006 | 452 821 | 739 500 |
| ... | 390 216 | 108 982 | 517 040 | 162 253 |
| ... | 461 833 | 939 277 | 402 916 | 195 795 |
| ... | 932 471 | 728 001 | 557 527 | 324 449 |
| ... | 530 555 | 532 206 | 504 917 | 56 740 |
| ... | 402 916 | 195 795 | 94 126 | 94 697 |
| ... | 605 275 | 1 390 092 | 864 102 | 292 233 |
| ... | 504 917 | 65 740 | 451 144 | 302 120 |
| ... | 94 126 | 94 697 | 741 673 | 173 704 |
| ... | 864 102 | 292 233 | 1 357 899 | 325 200 |
| ... | 458 352 | 405 876 | 1 652 647 | 1 508 610 |
| ... | 3 889 432 | 4 182 735 | 3 730 | 84 052 |
| ... | 750 115 | 460 717 | | |
| ... | 1 362 058 | 456 312 | | |
| ... | 1 773 529 | 3 181 654 | | |
| ... | 3 730 | 84 052 | | |
| Total .. | 32 559 668 | 25 678 530 | 31 965 683 | 22 533 348 |

AVERAGE HEIGHTS AND WEIGHTS

The average heights and weights of men in the United Kingdom have been tabulated as follows. The weights in *side clothing* which is generally calculated at one twenty fourth of the whole

| | Average Height | Average Weight |
|------------|----------------|----------------|
| Scotchmen | 5 ft. 8 in. | 12 |
| Irishmen | 5 ft. 8 in. | 20 65 |
| Englishmen | 5 ft. 7½ in. | 18 26 |
| Welshmen | 5 ft. 6¾ in. | |

CHAIRMEN OF CC CLEPES OF THE PEACE CHIEF CONSTABLES AND MEDICAL OFFICERS

| Chairmen of CC | Clerk of the Peace | Chief Constable | Medical Officer |
|-----------------------------------|----------------------------------|-----------------------------------|-------------------------|
| 1) Lord Amphil of Gt Oxted | J B Graham | Lt Col F A D Stevens CBE | C O Welch M.D. |
| 2) Sir William A. Munt, Bart. CBE | Lt. J C Neobard CBE | Lt. Col. A. Poulton CBE | G C Fayrer CBE M.D. |
| 3) L.H. West, O.B.E. LL.D. | Lt. Col C C Crutch M.C. TD LL.R. | Lt. Col. R. F. Warten CBE | S J C Holden M.D. |
| 4) W C Jackson | A Talbot O.B.E. | W Varney Webb | Frank J. binson M.D. |
| 5) Sir William H. Clarke | A F Copeman C.M.G. | Maj W R. Hartcup CBE | Robert French M.D. |
| 6) Sir William Hodgson | Peginald Potts | Lt. Col. P. Malcolm D.S.O. M.C. | Meredith Young M.D. |
| 7) Henry Grylls | W Leslie Platts | Lt. Col. Sir H. B. Protheroe M.C. | E M Clarke M.D. |
| 8) Rev Canon A. Sutton (C.B.E.) | C A. W. Holman | Philip L B Browne | F. Hughes Morrison M.D. |
| 9) E. C. Barnes CBE | H. Wilfrid Skinner (Drap.) | Maj F P Anley | Walter H. Ash F.R.C.S. |
| 10) Sir Henry Lopes Bt | Brian Miller | Capt H E Vyvyan | L. M. Davies, M.D. |
| 11) Earl of Shaftesbury | " | " | " |
| 12) Peter Lee | " | " | " |
| 13) H. E. Ellis | " | " | " |
| 14) Lt. Col. R. J. Kerr | " | " | " |
| 15) Earl of Malmesbury | " | " | " |
| 16) Sir G. Earing Bt | " | " | " |
| 17) F. Ballant | " | " | " |
| 18) Sir E. E. OBE | " | " | " |
| 19) G. Y. Rowley | " | " | " |
| 20) Lord C. Anson | " | " | " |
| 21) Sir W. G. G. CBE | " | " | " |
| 22) Lt. Col. P. E. | " | " | " |
| 23) Lord Henric OBE | " | " | " |
| 24) Sir W. W. L. CBE | " | " | " |
| 25) J. W. Gledhill M.A. | " | " | " |
| 26) Lord Monk Bretton CBE | " | " | " |
| 27) Col. Sir C. Pinkham | " | " | " |
| 28) Isaac Ashurst | " | " | " |
| 29) Russell J. Colman | " | " | " |
| 30) Sir A. de Capell Bt | Lt. Col. A. D. M. OBE | J. D. E. MacCallum CBE | J. MacCallum M.D. |
| 31) Marquess of Exeter | Walter J. Deacon | Capt F. James CBE | C. Rolleston M.D. |
| 32) Sir F. Blake Bt CBE | C. Harold Carter | " | A. J. Whitley M.D. |
| 33) Sir H. L. L. L. | " | " | " |
| 34) Sir H. L. L. L. | " | " | " |
| 35) Sir H. L. L. L. | " | " | " |
| 36) Sir H. L. L. L. | " | " | " |
| 37) Sir H. L. L. L. | " | " | " |
| 38) Sir H. L. L. L. | " | " | " |
| 39) Sir H. L. L. L. | " | " | " |
| 40) Sir H. L. L. L. | " | " | " |
| 41) Sir H. L. L. L. | " | " | " |
| 42) Sir H. L. L. L. | " | " | " |
| 43) Sir H. L. L. L. | " | " | " |
| 44) Sir H. L. L. L. | " | " | " |
| 45) Sir H. L. L. L. | " | " | " |
| 46) Sir H. L. L. L. | " | " | " |
| 47) Sir H. L. L. L. | " | " | " |
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| 49) Sir H. L. L. L. | " | " | " |
| 50) Sir H. L. L. L. | " | " | " |
| 51) Sir H. L. L. L. | " | " | " |
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| 53) Sir H. L. L. L. | " | " | " |
| 54) Sir H. L. L. L. | " | " | " |
| 55) Sir H. L. L. L. | " | " | " |
| 56) Sir H. L. L. L. | " | " | " |
| 57) Sir H. L. L. L. | " | " | " |
| 58) Sir H. L. L. L. | " | " | " |
| 59) Sir H. L. L. L. | " | " | " |
| 60) Sir H. L. L. L. | " | " | " |
| 61) Sir H. L. L. L. | " | " | " |
| 62) Sir H. L. L. L. | " | " | " |
| 63) Sir H. L. L. L. | " | " | " |
| 64) Sir H. L. L. L. | " | " | " |
| 65) Sir H. L. L. L. | " | " | " |
| 66) Sir H. L. L. L. | " | " | " |
| 67) Sir H. L. L. L. | " | " | " |
| 68) Sir H. L. L. L. | " | " | " |
| 69) Sir H. L. L. L. | " | " | " |
| 70) Sir H. L. L. L. | " | " | " |
| 71) Sir H. L. L. L. | " | " | " |
| 72) Sir H. L. L. L. | " | " | " |
| 73) Sir H. L. L. L. | " | " | " |
| 74) Sir H. L. L. L. | " | " | " |
| 75) Sir H. L. L. L. | " | " | " |
| 76) Sir H. L. L. L. | " | " | " |
| 77) Sir H. L. L. L. | " | " | " |
| 78) Sir H. L. L. L. | " | " | " |
| 79) Sir H. L. L. L. | " | " | " |
| 80) Sir H. L. L. L. | " | " | " |
| 81) Sir H. L. L. L. | " | " | " |
| 82) Sir H. L. L. L. | " | " | " |
| 83) Sir H. L. L. L. | " | " | " |
| 84) Sir H. L. L. L. | " | " | " |
| 85) Sir H. L. L. L. | " | " | " |
| 86) Sir H. L. L. L. | " | " | " |
| 87) Sir H. L. L. L. | " | " | " |
| 88) Sir H. L. L. L. | " | " | " |
| 89) Sir H. L. L. L. | " | " | " |
| 90) Sir H. L. L. L. | " | " | " |
| 91) Sir H. L. L. L. | " | " | " |
| 92) Sir H. L. L. L. | " | " | " |
| 93) Sir H. L. L. L. | " | " | " |
| 94) Sir H. L. L. L. | " | " | " |
| 95) Sir H. L. L. L. | " | " | " |
| 96) Sir H. L. L. L. | " | " | " |
| 97) Sir H. L. L. L. | " | " | " |
| 98) Sir H. L. L. L. | " | " | " |
| 99) Sir H. L. L. L. | " | " | " |
| 100) Sir H. L. L. L. | " | " | " |

LONDON, the capital of England and of the British Empire, and the greatest city in the world to be seen. *Metropolitan Boroughs—Under the London*

| | 1891 | Births | Deaths | £ | Stock | Low Clerk | Mayor 1891 |
|--------------------|-----------|--------|--------|------------|-------|-----------|------------|
| London | 2 476 168 | 17 9 | 21 9 | 57 487 535 | 2 d | | |
| CITY OF LONDON | 13 706 | 8 7 | 11 9 | 2 1 | | | Bro |
| WESTMINSTER | | | | | | | and |
| Battersea | | | | | | | |
| Bermonsey | | | | | | | |
| Bethnal Green | | | | | | | |
| Camberwell | | | | | | | |
| Chelsea | | | | | | | |
| Deptford | | | | | | | |
| Finsbury | | | | | | | |
| Fulham | | | | | | | |
| Greenwich | | | | | | | |
| Hackney | | | | | | | |
| Hammersmith | | | | | | | |
| Hampstead | | | | | | | |
| Holborn | | | | | | | |
| Islington | | | | | | | |
| Kensington (Royal) | | | | | | | |
| Lambeth | | | | | | | |
| Lewisham | | | | | | | |
| Paddington | | | | | | | |
| Poplar | | | | | | | |
| St Marylebone | | | | | | | |
| St Pancras | | | | | | | |
| Shoreditch | | | | | | | |
| Southwark | | | | | | | |
| Staple | | | | | | | |
| Stoke Newington | | | | | | | |
| Wandsworth | | | | | | | |
| Woodwich | | | | | | | |

THE CORPORATION OF THE CITY OF LONDON.

LONDON was famed for its vast confux of traders and its abundant commerce even in the first century of the Christian era. From the Romans it is said, it received municipal institutions which have not only been preserved but have been improved.

Aldermen were first appointed by a charter of Henry III. in 1242 and were elected annually between 1377 and 1394 when a charter of Richard II. directed them to be chosen for life.

The Right Honourable the Lord Mayor 1929-1930

Sir William Alfred Waterlow K.B.E. born 1873 Common Councilman, 1924 Alderman of the Ward of Cornhill 1928 Sheriff 1928 Lord Mayor 1929 The Mansion House, F.R.S. £10,000
Private Secretary (55th year) Sir Wm. J. Mulvey K.C.V.O., C.B., C.L.E.

The Aldermen

| Aldermen | | Ward | | Born | | C.C. | | Ald. | | Sh. | | Mayor | |
|--------------------------------|----------|------------|--------|------|------|--------|------|------|--|-----|--|-------|--|
| Sir George Wyatt Truscott, Bt. | Dunigate | Bridgwater | (1927) | 1857 | 1882 | 1895 | 1902 | 1908 | | | | | |
| | | | | 1856 | 1893 | 1897 | 1903 | 1909 | | | | | |
| Sir John Knill, Bt. | | | | | 1888 | 1902 | 1907 | 1912 | | | | | |
| | | | | | 1899 | 1907 | 1905 | 1913 | | | | | |
| | | | | | 1900 | 1907 | 1910 | 1914 | | | | | |
| | | | | | 1904 | 1908 | 1907 | 1915 | | | | | |
| | | | | | 1896 | 1909 | 1901 | 1918 | | | | | |
| | | | | | 1905 | 1916 | 1916 | 1923 | | | | | |
| | | | | | 1896 | 1917 | 1913 | 1924 | | | | | |
| | | | | | 1887 | 1920 | 1921 | 1925 | | | | | |
| | | | | | 1913 | 1922 | 1927 | 1936 | | | | | |
| | | | | | 1913 | 1921 | 1925 | 1927 | | | | | |
| | | | | | | 1923 | 1922 | 1928 | | | | | |
| | | | | | | 1893 | 1922 | 1929 | | | | | |
| | | | | | | 1910 | 1923 | | | | | | |
| | | | | | | 1917 | 1923 | | | | | | |
| | | | | | | 1922 | 1924 | | | | | | |
| | | | | | | 1904 | 1924 | | | | | | |
| | | | | | | | 1921 | | | | | | |
| | | | | | | 1904 | 1926 | | | | | | |
| | | | | | | 1912 | 1927 | | | | | | |
| | | | | | | 1903 | 1927 | | | | | | |
| | | | | | | 1908 | 1927 | 1927 | | | | | |
| Sir Isaac Nathan Jacobs | Portoken | | | 1867 | 1910 | (1921) | | | | | | | |
| Sir Percy Vincent, Bt. | Walbrook | | | 1868 | 1922 | 1929 | 1927 | | | | | | |

The Sheriffs.

Alderman William Phene Neal (see above) and Major F. H. Bowater C.C.

OFFICERS OF THE CITY OF LONDON

| Post | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328</ |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
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*THE CITY'S ESTATE, 1928-1929

| NET RECEIPTS. | | NET EXPENDITURE. | |
|---------------------------------|-----|------------------|------|
| £ | s d | £ | s d |
| Estate revenue | | 8 378 | 14 5 |
| Markets Revenue Acc. units — | | 14 766 | 17 1 |
| London Central Markets | | 37 443 | 17 5 |
| Billingsgate Market | | 21 861 | 8 5 |
| Leadenhall Market | | 10 673 | 12 6 |
| | | 5 435 | 0 8 |
| | | 4 558 | 10 6 |
| | | 6 428 | 13 7 |
| Less Metropolitan Cattle Market | | 1 969 | 6 2 |
| | | 3 696 | 8 2 |
| | | 26 284 | 12 6 |
| | | 3 195 | 1 5 |
| | | 246 | 16 0 |
| | | 13 168 | 2 3 |
| | | 716 | 10 0 |
| | | 500 | 0 0 |
| | | 138 | 11 0 |
| | | 11,119 | 14 7 |
| | | 8 745 | 19 6 |
| | | 15 000 | 0 0 |
| | | 15 000 | 0 0 |
| | | 30,000 | 0 0 |
| | | 10 000 | 0 0 |
| | | 30 000 | 0 0 |
| | | 10 000 | 0 0 |
| | | 525 | 0 0 |
| | | 10 | 0 0 |

THE CITY OFFICE

| COMPANY | of share holders | Total share £ | Master or Prime Warden 1909-1930 | Clerk | Hall* |
|----------------------|------------------------|---------------------|-------------------------------------|-------------------|-----------------------------------|
| Mercers (2) | 200 52 000 58 000 | 112 000 | Capt. G N Watney | Col F D Watney | Ironmonger Lane E.C. |
| Grocers (2) | 150 37 500 300 | 36 000 | Adm L O Tufnell | J Hickman Barnes | Princes Street, P.C. |
| Drapers (2) | 200 50 000 28 000 | 78 000 | A B Giles M.D. | F H Fooley M.A. | Throgmorton St. P.C. |
| Fishmongers (4) | 285 47 750 = 435 | 50 225 | L Holland Martin C.M. | L V Huoper J.F. | London Bridge P.C. |
| Goldsmiths (5) | 120 43 000 16 000 | 59 000 | Lord Wargrave P.C. | W T Frioux | Poster Lane A.C. |
| Silversmiths (6) | 287 37 200 33 000 | 66 500 | M Aylett Game | J Lambert | Doughty Hill P.C. |
| MERCHANT Taylors (3) | 220 37 000 17 000 | 50 000 | Sr Henry C Gooch | L Roche Finn M.A. | 30 Threadneedle St. P.C. |
| Hide Lashers (8) | 150 8 000 40 000 | 57 000 | Re H A William | J Eslington | 33 Gresham St. E.C.2 |
| Bailers (9) | 150 20 000 8 000 | 28,000 | Jas est Hinds | G Ferard & Chels | St Swithin's Lane, F.C. |
| Ironmongers (10) | 33 23 000 23 000 | 26 000 | Edmond Smith | G F Adams Duck | Shottenbury Place Aldersgate P.C. |
| Vintners (11) | 191 17 000 1 500 | 18 500 | Leicester M Reed | Pym Corn H.B. | 61 St Dunstons P.C. |
| Clothiers (12) | 160 57 160 27 300 | 24 500 | Stephen Child | P M E 124 M.A. | 41 Mining Lane, E.C.2 |

The above are the Tuxi & "gout" London Company is in order of Cotic precedence

| | | | | | | |
|---------------------|------|-------|--------|---------------------|-------------------------|----------------------------|
| Apothecaries (58) | 2000 | 600 | 600 | Lt. Col. C. P. Raim | Phillip Frere M.C. | Water Lane E.C. & |
| Armourers (110) | 25 | 7 500 | 60 | 2 000 | Friderick H. Wag | 82 Colen an St. E.C. |
| Bookbinders (22) | | | | staff | | |
| Bakers (19) | 120 | 2 500 | 370 | 1 900 | Col. G. R. Brighton | 14 Harp Lane F.C. |
| Barbers (12) | 120 | | | | George F. Widdash | 23 Monkwell St. E.C. |
| *Basket-makers (52) | 136 | | 43 | | J. N. B. tier | 12 Great Am. College E.C. |
| *Blacksmiths (40) | 70 | 684 | none | 684 | Industry Foster | 163 W. Thames St. E.C. |
| *Burgers (38) | 30 | 630 | 40 | 630 | Mr. Reginald J. N. | 15 Llanva's Inn Sq. E.C. |
| | | | | Neill, H. M.P. | | |
| Brewers (14) | 70 | 3 140 | 21 300 | 24 440 | S. O. Derrile | Addle St. E.C. |
| *Brookers (18) | 27 | | | | Col. Cecil Allen, M.C. | 12 St. Bridget's Lane E.C. |
| Butchers (24) | 150 | | 810 | | William J. Parsons | 67 Bartholomew Close E.C. |
| *Carrs (2) | 105 | 150 | none | 165 | Adv. Sir Percy Vin cent | 1700000 |
| Carpenters (46) | 122 | 4 70 | | | | |
| *Clock-makers (62) | | | | | | |
| Cloth-makers (90) | | | | | | |
| *Cooks (35) | | | | | | |
| Coppers (16) | | | | | | |
| Cordwainers (47) | | | | | | |
| *Cottagers (26) | | | | | | |
| Cutlers (18) | | | | | | |
| *Distillers (16) | 55 | | 1 000 | | 4 000 | 4 000 |
| Dye (12) | 85 | 6 000 | 2 000 | 7 000 | Harry J. Newman | |
| *Fan makers (34) | 70 | 150 | 1 000 | 150 | Trer. J. Matthews | |
| | | | | | Sir John Pakenham | |
| | | | | | C.W. C. | |
| *Farrriers (25) | 110 | 325 | 2000 | 325 | Stanley C. Egan | |
| *Felt-makers (14) | 220 | 87 | 124 | | | |
| *Fish-ers (30) | 24 | 70 | none | | | |
| Foundries (13) | 81 | 2 710 | 115 | | | |
| *Framers (25) | 135 | 620 | 600 | | | |
| *Glass-makers (15) | 115 | 340 | 600 | 340 | William Machin M.C. | |
| *Goldsmiths (64) | 200 | 60 | 60 | 200 | Edward Eberwood | |
| *Gallers (15) | 84 | 3 000 | 5 300 | 4 300 | George Walter Lloyd | |
| *Hatters (17) | 64 | 11 | 85 | 85 | W. L. Vernon | |
| *Hatters (15) | 754 | 115 | 81 | 107 | Mr. Hugo Birch, M.C. | |
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| *Hatters (15) | 115 | 100 | 50 | 115 | Harold P. Frank | |
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| Company | Assets | Liabilities | Capital | Reserve | Profit | Master or Prime Warden, 1909-1910. | Clerk. | Hall. |
|--------------------------------------|--------|-------------|---------|---------|--------|------------------------------------|------------------------|--------------------------------------|
| *Gold & Silver H goldsmiths (105) | 110 | 110 | 3 | 117 | 117 | R. H. Hodderwick | A. Charles Knight | 32 Wallbrook E.C. 4. |
| *Gunmakers (96) | 100 | 100 | 100 | 100 | 100 | Cecil Mack | Norman Cayley | [Baxton House E.C. 4.] |
| *Hatters (76) | 100 | 100 | 100 | 100 | 100 | C. Verell | Howard Knight | 90 Cannon St. E.C. 4.] |
| *Jewellers (30) | 93 | 1,000 | 250 | 1,250 | 1,250 | G. Lancel & Walter | John C. Deuce | College Street, Dowgate Hill E.C. 4. |
| *Jewellers (21) | 80 | 1,300 | none | 1,300 | 1,300 | R. H. Hallett | Arthur Bedford | [22a Woodwood St. F.C. 4.] |
| *Leatherworkers (15) | 150 | 16,000 | 7,500 | 150 | 150 | Howard R. Simpson | Geo. F. Mitt | St. Helen's Place, F.C. 4.] |
| *Liners (57) | 200 | 50 | 150 | 150 | 150 | James R. Hilland | C. F. J. Jennings | 112 St. Swithun's Lane F.C. 4.] |
| *Masons (30) | 54 | 550 | none | 330 | 330 | A. L. Whittier | W. M. Chown | 100 Lincoln's Inn, W.C. 4.] |
| *Miners (50) | 145 | 8 | 1 | 1 | 1 | | | C. 4.] |
| *Needlemakers (69) | 150 | 1 | 1 | 1 | 1 | | | E.C. 4.] |
| *Painters (28) | 100 | 1 | 1 | 1 | 1 | | | Lane |
| *Patternmakers (76) | 90 | 1 | 1 | 1 | 1 | | | C. 4.] |
| *Shoemakers (56) | 100 | 1 | 1 | 1 | 1 | | | E.C. 4.] |
| *Spectacles (18) | 98 | 1 | 1 | 1 | 1 | | | W.C. 4.] |
| *Stainers (46) | 46 | 1 | 1 | 1 | 1 | | | W.C. 4.] |
| *Tailors (30) | 110 | 1 | 1 | 1 | 1 | | | W.C. 4.] |
| *Tanners (83) | 110 | 1 | 1 | 1 | 1 | | | W.C. 4.] |
| *Tanners (31) | 83 | 110 | 20 | 900 | 1,000 | Leonard Bishop | Maj. W. H. Champ | 26 Farnival St. E.C. 4.] |
| *Tanners (34) | 70 | 750 | 250 | 1,000 | 1,000 | Maj. J. Lockhart | C. I. Mutha | 19 Great Windwater St.] |
| *Tanners (25) | 87 | 1,200 | 1,000 | 1,200 | 1,200 | H. R. H. Duke | A. F. G. Everitt | 141 Cheapside E.C. 4.] |
| *Tanners (44) | 50 | 1 | 1 | 1 | 1 | J. P. Crawford | A. A. Filkins | 56 Victoria Street S.W. 1.] |
| *Tanners (50) | 100 | 1 | 1 | 1 | 1 | Mary of Allah | J. L. Lingard | 4 New London St. F.C. 4.] |
| *Tanners (100) | 147 | 100 | 100 | 100 | 100 | | Maj. W. H. Champ | 26 Farnival St. F.C. 4.] |
| *Tanners (47) | 277 | 1,600 | 2,700 | 4,700 | 4,700 | Str. W. A. Water | R. T. Rivington | Stationers Hall, E.C. 4.] |
| *Tanners (21) | 75 | 1 | 1 | 1 | 1 | Str. Frederick Bar | M. F. Moulter Williams | 4 Dowgate Hill, E.C. 4.] |
| *Tin Plate (100) | 147 | 1 | 1 | 1 | 1 | Charles H. H. P. | E. A. P. B. White | 18 R. H. Hall Harp Lane, F.C. 4.] |
| *Tanners (51) | 100 | 74 | 100 | 100 | 100 | Gerald W. Potter | Feetle A. Stone | 18 R. H. Hall Harp Lane, F.C. 4.] |
| *Tanners (37) | 70 | 1,000 | 80 | 1,080 | 1,080 | R. George N. Bird | Arthur H. Bird | 4 Bedford R. W. W.C. 4.] |
| *Tanners (40) | 35 | 100 | 100 | 100 | 100 | J. T. Trev | William G. Crump | 17 L. Gardenhall St. E.C. 4.] |
| *Tanners (100) | 107 | 1,370 | 230 | 1,600 | 1,600 | Gerald M. T. Ald | T. R. Birdwater | Greenhall Street F.C. 4.] |
| *Tanners (12) | 200 | 1,242 | 1,527 | 2,700 | 2,700 | G. R. L. Padcliffe | Lawrence L. H. W. A. | 17 Queen Anne's Gate, W.C. 4.] |
| *Tanners (23) | 153 | 25 | 100 | 178 | 178 | R. W. B. Dickland | T. Harvey Hall | [Guthrie, E.C. 4.] |
| *Tanners (43) | 31 | 400 | none | 400 | 400 | Maj. Herbert Laurie | G. M. Canham | 61 London Wall, E.C. 4.] |

* In case of Companies having no Hall, the address of the Clerk is given in brackets.

THE LONDON FIRE BRIGADE Headquarters 94 Southwark Bridge Road, S.E. 1.

THE LONDON COUNTY COUNCIL.

Offices, The County Hall Westminster Bridge, S. E. 1, and Old County Hall, Spring Gardens S. W. 1.
Hours 9.30 to 5 (Monday to Thursday), 9.30 to 5.30 (Friday), 9.30 to 11.30 (Saturday).

Meets on Tuesday at 2.30 p.m.

was constituted (ordered by the Royal Commission on Cross
The Council is also
bridge and carrying on
connection therewith.

great annual
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is estimated
and the net
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receipts
£688,957 do
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and twelve co-
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l capital out
£1,000, and involving
annual expenditure of about

provisions of the Local

ESTIMATED INCOME

| | | |
|--|------------|-----------|
| 1. ESTIMATED BALANCE ON April 1, 1930 | £ | 1,434,000 |
| 2. EXCESS OF CHARGES | £ | |
| Local Taxation Licences and Estate Duty | | |
| Education | 476,534 | |
| Fire Brigade | 6,543,215 | |
| Tyres in use of Taxis and cabs | 10,000 | |
| Mental Health Service | 73,005 | |
| Venernal diseases diagnosis and treatment | 120,795 | |
| Re-fund of cost of collecting Road Fund Liabilities | 70,845 | |
| Agricultural Rates &c | 81,910 | |
| Road Fund towards cost of maintenance of bridges, tunnels and culverts | 2,000 | |
| Other | 67,080 | |
| | 5,845 | |
| | 7,065,970 | |
| 3. OTHER INCOME IN 1930 | | |
| Mundry contributions fees &c | 820,790 | |
| 4. TRANSFER FROM Public Housing &c in relief of rates | 2,000 | |
| 5. COUNTY CONTRIBUTIONS required to be raised — | | |
| General County — | | |
| For purposes other than Education rate of 1s 4½d | £3,851,957 | |
| For Education rate of 1s 3½d | 6,408,657 | |
| | 10,260,614 | |
| Special County rate of 3½d | 639,359 | |
| Total rate 3s 10½d | 10,900,973 | |

ESTIMATED EXPENDITURE

| | | |
|---|------------|------------|
| 1. INTEREST — | £ | |
| Interest | £741,963 | |
| Redemption | 1,015,377 | |
| | 1,957,340 | |
| 2. GRANTS — To Guardians and others | | 700,000 |
| 3. CONTRIBUTIONS IN RESPECT OF ANTI-RACIAL WORKS outside the county | | 47,740 |
| 4. PENSIONS AND RETIREMENT AND SAVING FUNDS | | |
| Less included in cost of services | 357,795 | |
| | 417,355 | |
| | 140,410 | |
| 5. PARLIAMENTARY CHARGES | 2,583,330 | |
| Less included in cost of services | 1,067,045 | |
| | 316,285 | |
| 6. JUDICIAL EXPENSES | | 68,480 |
| 7. PARLIAMENTARY EXPENSES | 19,470 | |
| Less included in cost of services | 795 | |
| | 18,675 | |
| 8. MAIN SERVICES (including Establishment charges —) | | |
| Main Brigade | £399,450 | |
| Fire Brigade | 843,700 | |
| Parks and Open Spaces | 365,380 | |
| Bridges, Tunnels, Ferry and Culverts | 105,700 | |
| Mental Hospital Buildings & covenors | 154,400 | |
| Public Control Services | 40,600 | |
| Public Health Services | 87,975 | |
| Tuberculosis Treatment | 26,500 | |
| Venernal Diseases | 95,000 | |
| Building Acts | 47,000 | |
| Abolition Service | 54,405 | |
| Mental Health Service | 278,215 | |
| Collection of Road Fund and Local Taxation Liabilities | 100,605 | |
| Miscellaneous | 201,930 | |
| Education — | | |
| Elementary | £9,040,700 | |
| Higher | 3,044,800 | |
| | 12,085,500 | |
| Less included in Head | 803,250 | |
| | 11,282,250 | |
| 9. GENERAL PROVISION TO meet capital expenditure &c. | | 75,000,735 |
| Total Estimated Expenditure | | 89,000,000 |
| 10. TRANSFER TO other accounts | | |
| 11. ESTIMATED BALANCE ON March 31, 1930 | | |

THE THIRTEENTH LONDON COUNTY COUNCIL

Elected March 8 1928 for three years.

Chairman (1929-30)

Lord Monk Bretton, C.B., D.L.

Vice-Chairman

Ernest Sanger

Deputy Chairman

Mrs Evelyn M. Lowe

ALPHABETICAL LIST OF ALDERMEN AND COUNCILLORS.

Name Electoral Division

Name Electoral Division

Halse F. J. (MR)

West Woodrich

Harris P. A., M.A. D.L.

West Woodrich

Harris P. A., M.A. D.L.

West Woodrich

Harris P. A., M.A. D.L.

West Woodrich

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West Woodrich

Harris P. A., M.A. D.L.

West Woodrich

Harris P. A., M.A. D.L.

West Woodrich

Harris P. A., M.A. D.L.

West Woodrich

Plackett J. J. (Lab.)
 Blake J. P. (Lab.)

Go and Bromley
 Peckham

Cobb Capt. Edward D. N.
 (MR)

East Islington

Coppock E.

Alford until 1931

Cumbe Maj. E. B. (MR)

Stoke Newington

Cianbrook East of

Alderman until 1934

Cruse Edward (Lab.)

Go and Bromley

Culpin F. W. G.

Alderman until 1931

Culton Mrs. Hugh (Lab.)

Peckham

Culton J. C. D.L. (MR)

Abbe

Dollar Mrs. M. M. (Lab.)

S. F. St. Pancras

Dove F. L. D.L. (MR)

North Islington

Elliot Mrs. A. (MR)

North St. Pancras

Enmet Mrs. E. M. A. (MR)

North Hackney

Elve Lady (MR)

South Kensington

Falmouth Viscount (MR)

St. George's

Galer F. Bertram M.A.

Streatham

F. C. A. (MR)

Woods

Gardner Mrs. R. Dunn (MR)

Abbe

(vacancy)

North Southwark

Gibbins T. G. (Lab.)

Kensington

Claughton W. (Lab.)

Alderman until 1931

D.L.

Alderman until 1931

Ken P. E. H. (MR)

West Woodrich

Lambert Dr. Harrie O. B.

Brixton

P. H. (MR)

Alderman until 1931

Lancaster Mrs. C. R.

Alderman until 1934

Latham Charles

St. George's

Latham H. P. (MR)

St. George's

Lawrence Hon. Lady (MR)

North Kensington

Levitt Lt. Col. Sir Cecil B.

North Kensington

C. B. E. M. O. D.L. (MR)

North Kensington

Lewis-Harney Maj. H. B.

North Kensington

D.L. (MR)

North Kensington

Lowe Mrs. Evelyn M. (Lab.)

West Woodrich

Lyall Dame Beatrice, D.B.E.

East Putney

(MR)

East Putney

MacDonald Miss Isabel

South Putney

(Lab.)

South Putney

MacDonald Malcolm M.P.

South Putney

(Lab.)

South Putney

Macdonell J. H. F.R.S.A.

South Putney

(Lab.)

South Putney

Macdonell J. H. F.R.S.A.

South Putney

(Lab.)

South Putney

Macdonell J. H. F.R.S.A.

South Putney

(Lab.)

South Putney

Macdonell J. H. F.R.S.A.

South Putney

(Lab.)

South Putney

Macdonell J. H. F.R.S.A.

South Putney

(Lab.)

South Putney

Macdonell J. H. F.R.S.A.

South Putney

(Lab.)

South Putney

Macdonell J. H. F.R.S.A.

South Putney

(Lab.)

South Putney

Scott Angus N FCA (MP) Electoral Division Putney

Pierpont Capt G E M C

(MR) Platt J Crawford (MR)

Pollitt F Leigh (MP)

Brixton

S. Hammersmith

W. Faversham

F. E. C. L. R. C. P.

Edwards, Dr Adeline OBE

(MP) Mansbury E. J. OBE

B. A. (M. P.)

Salter Mrs. Ada (Lab.)

Samuels B. J. (MR)

Samuels A. E. M. B. (Lab.)

Sanger Ernest (MR)

Savage Lt Col M. B.

C. H. E. J. C. (M. I.)

Alderman I. H. 1934

St. Marylebone

North Battersea

West Bermondsey

St. Helier in the

St. Pancras

St. Marylebone

North Battersea

Webb W. H. B. E. (MR) N. W. Camberwell

Wilmot H. A. (M. R.) D. L. W. C.

Wilson, Clyde I. B. A. L. L. B.

(M. P.) Central Wandsworth

NOTE. The letters (M. I.) (Lab.) (M. R.) stand for the Party whose candidate the Member was at the election viz. (MR) Municipal Reform (Lab.) Labour (M. R.) Liberal

CHIEF OFFICERS OF THE LONDON COUNCIL

Clerk of the Council Mr. H. C. L. L. B.

(Barrow-in-Furness) J. P.

Dep. to Clerk W. H. Wadlington

Comptroller of the Council D. J. L. L. B.

Dep. to Comptroller H. W. L. L. B.

Chief Engineer and County Surveyor

Mr. George Humphreys K. B. E.

M. I. L. C. E.

(Also £500 as Administrator of

Housing Development Scheme)

Chief Officer Frank Hunt C. V. O.

£2,500

Medical Officer of Health and School Medical Officer

Mr. H. H. Meuzles M. D.

£1,000

£1,000

A. J. L. L. B. E.

Chief Officer Mental Hospitals Dept.

Mr. H. Curtis (act. 19)

£1,100

As from and including April 1930

CRIME IN THE METROPOLITAN POLICE DISTRICT

| Year | Total No. of Crimes | Total No. of Persons Arrested | First Loss | Amount Recovered | Total Loss | Estimated Population | Proportional Loss |
|------|---------------------|-------------------------------|------------|------------------|------------|----------------------|-------------------|
| 1924 | 15,031 | 10,000 | £643,783 | £251,563 | £392,220 | 7,611,689 | 1 |
| 1925 | 14,908 | 9,885 | 700,808 | 93,889 | 606,919 | 7,652,218 | 1 |
| 1926 | 15,668 | 10,711 | 451,387 | 210,534 | 240,853 | 7,728,583 | 1 |
| 1927 | 14,908 | 10,487 | 564,869 | 230,000 | 334,869 | 7,777,790 | 1 |
| 1928 | 15,484 | 10,382 | 577,758 | 137,950 | 439,808 | 7,783,068 | 1 |

THE PRINCIPAL ENGLISH CITIES

Aldermen and 105 Councillors. Manchester returns 10 members to Parliament. The Latin name of the city was *Mancunium*.

brush making, and many other industries. Sheffield plate (silver rolled on other metals) made during the years 1744-1840, when electroplating superseded the process, is greatly prized by collectors.

The principal buildings are the 14th century

Recorder, Charles Frederick Lums
(1928)
Sheriff (1929-1930),
Town Clerk (acting), Graham Wilson
Coroner John Divine M.D.

BRADFORD

(Yorkshire West Riding) 192

1846-1847. The pre Norman borough of *Monkchester* was re-named Newcastle in the 12th century when the castle was erected as a defence against the Scots. In 1400 it was made a county borough and in 1859 was incorporated. The City Corporation was a Lord Mayor (1906), 19 Aldermen and 120 Councillors.

phenomenon.
Halifax
Arthur Maule

Mechanics Institute (1832).

1921 1922 1923

The city is connected with the North Sea and the Atlantic by the river Trent and canals and is an important railway centre. The principal

| | | | |
|------------|-----------|---------------|---------|
| London | 4 483 240 | East Ham | 163 304 |
| Birmingham | 919 438 | Brighton | 142 437 |
| Liverpool | 803 818 | Middlesbrough | 131 203 |
| W. London | — | South | — |

THE FIFTY LARGEST TOWNS IN ENGLAND (Census of 1921)

NOTE—The official census of 1921 was postponed from the usual date to June 19 in

STRATFORD ON AVON

Shakespeare's Birthplace (April 23 1564), at by Edward VI. Here Shakespeare acquired his

King Edward's School—Founded by Thomas Jollywe, priest, in Henry VI reign, incorporated poet and family cathedral like proportions.

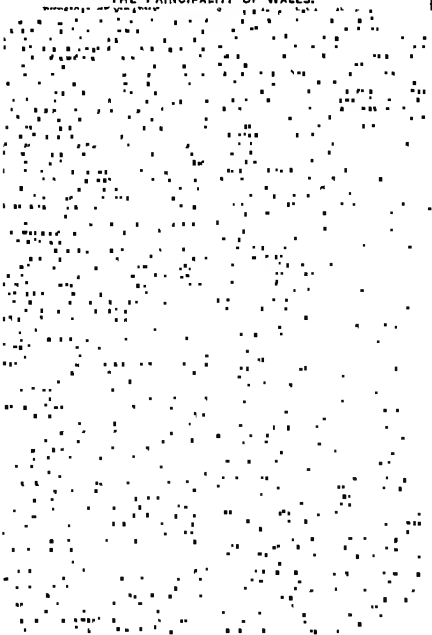
[illegible]

| Cities, Boroughs, and Urban Sanitary Districts | Popul. 1st of 1901 | Rate per 1,000 | | Rateable Value | T. Wn Clerk (or C. E. D. C.) | Mayor 1900-30. * Lord Mayor † Chairman L. D. C. |
|--|-----------------------|----------------|--------|----------------|---------------------------------|---|
| | | Births | Deaths | | | |
| Cheltenham Gloucester | 48,444 | 18 74 | 11 47 | 397 217 | Pot. L. Owen Seacombe | C. H. Margrett, C. B. E. |
| Chipping Wycombe Bucks. | 21,954 | 16 9 | 10 1 | 1 1 | | |
| CHESTER | 40,794 | 16 51 | 11 26 | 1 1 | | |
| Chesterfield, Derbyshire | 61,236 | 18 7 | 11 8 | 1 1 | | |
| CHICHESTER, W. Sussex | 12,410 | 15 59 | 12 01 | 1 1 | | |
| Chippingham Wilts. | 7,783 | 14 4 | 9 0 | 1 1 | | |
| Chipping Norton, Oxon | 3,544 | 13 7 | 13 7 | 1 1 | | |
| Chorley, Lancs. | 30,576 | 17 4 | 12 4 | 1 1 | | |
| Christchurch, Hants. | 6,991 | 16 3 | 10 5 | 1 1 | | |
| Croque Ports (see Dover) | | | | | | |
| Hastings Hythe Lymington | | | | | | |
| Eye and Sandwich also Eye and Winchelsea | | | | | | |
| Clitheroe, Lancs. | 12,204 | 12 8 | | 1 1 | | |
| Colchester, Essex | 43,393 | 15 58 | | 1 1 | | |
| Colne Lancs. | 24,755 | 11 9 | | 1 1 | | |
| Congleton Cheshire | 11,764 | 16 6 | | 1 1 | | |
| COVENTRY Warwick | 128,805 | 14 8 | | 1 1 | | |
| Crews, Cheshire | 46,477 | 16 2 | | 1 1 | | |
| Croydon, Surrey | 191,500 | 15 0 | | 1 1 | | |
| Darlington, Durham | 65,866 | 17 1 | | 1 1 | | |
| Dartmouth Devon | 7,801 | 15 5 | | 1 1 | | |
| Darwen, Lancs. | 37,913 | 11 95 | | 1 1 | | |
| Daventry, Northants. | 3,518 | 14 19 | | 1 1 | | |
| Deal Kent | 12,290 | 13 6 | | 1 1 | | |
| Derby | 132,400 | 18 9 | | 1 1 | | |
| Devizes Wiltshire | 6,035 | 17 0 | | 1 1 | | |
| Dewsbury, Yorks (W. R.) | 54,185 | 12 08 | | 1 1 | | |
| Doncaster, Yorks (W. R.) | 54,052 | 19 5 | | 1 1 | | |
| Dorchester | 9,554 | 15 5 | | 1 1 | | |
| Dover Kent | 39,985 | 18 7 | | 1 1 | | |
| Driffield, Worcs. | 4,588 | 17 8 | | 1 1 | | |
| Dudley, Worcestershire | 55,874 | 11 4 | | 1 1 | | |
| Dukinfield Cheshire | 19,493 | 11 65 | | 1 1 | | |
| Eunstable, Leics. | 8,894 | 10 57 | | 1 1 | | |
| EXETER | 17,345 | 20 4 | | 1 1 | | |
| Ealing, Middlesex | 67,753 | 14 1 | | 1 1 | | |
| Eastbourne, E. Sussex | 62,030 | 11 55 | | 1 1 | | |
| East Ham Essex | 143,304 | 15 8 | | 1 1 | | |
| East Retford Notts | 13,412 | 20 7 | | 1 1 | | |
| Exeter Lancs. | 44,844 | 16 36 | | 1 1 | | |
| Edmonton Middlesex | 66,809 | 17 8 | | 1 1 | | |
| ELY, I. of Ely | 7,690 | 17 6 | | 1 1 | | |
| Farnold, Shropshire | 60,738 | 16 39 | | 1 1 | | |
| Faversham Kent | 8,645 | 18 1 | | 1 1 | | |
| Folkestone Kent | 37,410 | 12 5 | | 1 1 | | |
| Fowey, Cornwall | 1,982 | 8 57 | | 1 1 | | |
| Gateshead Durham | 125,142 | 11 5 | | 1 1 | | |
| Gillingham Kent | 54,938 | 14 6 | | 1 1 | | |
| Glastonbury, Somerset | 4,897 | 14 66 | | 1 1 | | |
| Glossop Derby | 20,528 | 13 34 | | 1 1 | | |

[illegible]

| Cities, Towns and Urban Sanitary Districts | Population, 1901. | Rate per 1,000 | | Rational Value £ | Town Clerk (or City or B.C.) | Mayor, 1902-03. • Lord Mayor • Chairman L.C.C. |
|--|-------------------|----------------|--------|---------------------|---------------------------------|--|
| | | Births | Deaths | | | |
| Morley Yorks (W.R.) | 23,935 | 14.9 | 13.6 | 119,940 | Thackray | B. P. Hepworth |
| Morpeth, Northumb. | 7,580 | 19.9 | 13.01 | 26,640 | Edward Jackson | I. Wilson |
| Mossley, Lancs. | 11,705 | 18.8 | 13.3 | 76,564 | C. Proctor | A. T. Bell |
| Nelson, Lancs. | 39,841 | 11.0 | 1.1 | 1.1 | | |
| Newark, Notts. | 16,957 | 17.83 | | | | |
| Newbury Berks. | 12,290 | 14.8 | | | | |
| Newcastle-under-Lyme | 20,418 | 13.01 | | | | |
| NEWCASTLE UPON TYNE | 278,400 | 21.6 | | | | |
| Newport I. of Wight | 11,036 | 15.0 | | | | |
| New Romney Kent | 1,603 | 10.05 | | | | |
| | | | | | | |
| Northampton | 90,895 | 13.7 | 12.0 | 647,999 | W. R. Kew | H. A. Smith |
| Northwich, Cheshire | 120,653 | 17.12 | 11.16 | 654,751 | Noel B. Radcliff | W. H. Smith |
| NOTTINGHAM | 266,400 | 17.8 | 13.8 | 664,045 | (See pp. 588-9) | |
| Southampton | 41,894 | 18.6 | 10.1 | 183,940 | P. C. Layman | Mr. J. E. Price |
| Stratford-on-Avon | 3,456 | 10.8 | 10.1 | | | |
| Stratford, Lancs. | 144,983 | 14.6 | 14.4 | | | |
| Stratford, Yorks. | 14,808 | 17.81 | 14.08 | | | |
| Stratford, Salop. | 9,790 | 16.3 | 12.6 | | | |
| STURBOROUGH | 57,054 | 14.86 | 12.69 | | | |
| Swansea, Cornwall | 3,151 | 18.4 | 11.74 | | | |
| Swansea, Cornwall | 12,096 | 18.01 | 16.06 | | | |
| PETERBOROUGH | 35,513 | 24.6 | 13.0 | | | |
| PLYMOUTH | 209,857 | 26.5 | 22.0 | | | |
| Pontefract, Yorks (W.R.) | 16,763 | 23.2 | 26.2 | | | |
| | | | | | | |
| Poole Dorset | 43,661 | 17.5 | | | | |
| PORTSMOUTH Hants | 247,343 | 27.8 | | | | |
| Preston, Lancs. | 219,900 | 13.01 | | | | |
| Rudby, Yorks (W.R.) | 14,315 | 11.7 | | | | |
| Queenborough, Kent | 3,073 | 11.9 | | | | |
| Ramsgate, Kent | 36,560 | 14.98 | | | | |
| Rawtenstall, Lancs. | 28,980 | 24.2 | | | | |
| Reading Berks. | 94,174 | 17.50 | | | | |
| Redcar, Yorks (N. Riding) | 16,399 | 16.5 | | | | |
| Reigate Surrey | 28,913 | 13.7 | | | | |
| Richmond Surrey | 35,651 | 14.2 | | | | |
| Richmond, Yorks (N.R.) | 3,883 | 20.7 | | | | |
| ROTHAM Yorks (W.R.) | 8,389 | 17.34 | | | | |
| ROTHAMBLE Lancs. | 90,816 | 16.8 | | | | |
| ROCHESTER Kent | 31,031 | 16.6 | | | | |
| Romney Hants | 4,825 | 17.2 | | | | |
| Rotherham Yorks (W.R.) | 68,045 | 20.76 | | | | |
| Rye I. of Wight | 11,295 | 15.0 | | | | |
| Rye P. Sussex | 3,918 | 12.50 | | | | |
| Salfron Walden, Essex | 5,876 | 10.4 | | | | |
| ST ALBAN'S Herts. | 25,588 | 13.70 | | | | |
| St. Helens Lancs. | 102,640 | 20.8 | | | | |
| St. Ives Cornwall | 6,045 | 14.22 | | | | |
| St. Ives Hunts | 8,797 | 14.1 | | | | |
| SAFFORD Lancs. | 239,100 | 17.3 | | | | |
| Salisbury Wilt. | 22,867 | 11.6 | | | | |
| Salisbury Cornwall | 3,631 | 17.1 | | | | |
| Salisbury Kent | 3,161 | 15.2 | | | | |
| | | | | | | |
| | | | | 350,876 | Sydney Jones | A. Moore |
| | | | | 11,668 | J. Kingsley Rutter | J. D. Chesterbell |
| | | | | 620,155 | (See p. 587) | |
| | | | | 190,042 | W. F. Prieaux | A. Woolman |
| | | | | | | |
| Southport Lancs. | | | | | | |
| South Shields, Durham | | | | | | |
| Southwold, L. Suffolk | | | | | | |
| Stafford | | | | | | |
| Stalybridge, Cheshire | | | | | | |

THE PRINCIPALITY OF WALES.



WELSH COUNTIES

| County or Shire and Administrative Headquarters | Geographical Boundaries | | Administrative Boundaries | |
|---|-------------------------|------------|---------------------------|------------|
| | Area | Population | Area | Population |
| Anglesey | 176 630 | 51 695 | 176 630 | 51 695 |
| Brecknock | 469 281 | 61 257 | 469 281 | 61 257 |
| Cardigan | 443 189 | 61 292 | 443 189 | 61 292 |
| Carmarthen | 588 472 | 175 069 | 588 472 | 175 069 |
| Carnarvon | 366 005 | 131 034 | 366 005 | 131 034 |
| Denbigh | 426 080 | 154 847 | 426 080 | 154 847 |
| Fflint | 163 707 | 106 466 | 163 707 | 106 466 |
| Glamorgan | 520 456 | 225 710 | 474 607 | 225 710 |
| Merioneth | 422 372 | 45 450 | 422 372 | 45 450 |
| Montgomery | 510 110 | 51 317 | 510 110 | 51 317 |
| Penbroke | 393 003 | 92 056 | 393 003 | 92 056 |
| Radnor | 301 165 | 23 528 | 301 165 | 23 528 |
| Total | 4 780 470 | 2 206 712 | 4 734 621 | 2 206 712 |

LORDS LIEUTENANT HIGH SHERIFFS AND CHAIRMEN OF Q.S.

| County or Shire | Lord Lieutenant | High Sheriff 1929-30 | Chairman of Q.S. |
|-----------------|---|-------------------------------------|----------------------------------|
| Anglesey | Sir R. H. Williams Bulkeley Bt. K.C.B. (D.S.O.) | Lt.-Col. R. C. Dwyer Hampton D.S.O. | Col. T. E. J. Lloyd |
| Brecknock | Lord Glanusk C.B. C.B.E. | D. M. Evans Bevan | His Honour J. P. Ivor Bowen K.C. |
| Cardigan | Earl of Lisburne | W. E. Ll. Davies | A. T. Janes K.C. |
| Carmarthen | Lord Dynevor | John Mayberry Bevan | Sir J. D. W. Brown |
| Carnarvon | John Ernest Greaves C.B.E. | Sir R. Armstrong-Jones C.B.E. | Re. Hon. D. Lloyd George O.M. |
| Denbigh | Col. R. W. H. Williams Wynne C.B. D.S.O. | Maj. W. C. B. Williams D.S.O. | R. W. Legerston |
| Fflint | Henry Neville Gladstone | R. Adm. Rafe Grenville | Re. Hon. Sir J. E. Banks C.B. |
| Glamorgan | Earl of Plymouth C.B.E. | William Mims | Lt. Col. R. E. Williams Bt. K.C. |
| Merioneth | Lord Harlech C.B. | Thomas Humphreys Jones | Sir H. Beyer Roberts |
| Montgomery | Sir H. L. W. Williams Wynne Bt. C.B. | Arthur Ll. Owen | Major John Lewis |
| Penbroke | Viscount St. Davids | Maj. A. V. Stokes | Sir E. M. Samuel K.C. |
| Haverfordwest | Lord Kilsant C.B. M.G. | Capt. G. Graham-Clarke | Capt. Hon. R. H. Walsh M.P. |
| Radnor | Col. Sir G. Venables Llewelyn Bt. | | |

OTHER WELSH COUNTY OFFICIALS

| County &c. | Chairman of C.C. | Clerk of the Peace | Chief Constable | Medical Officer |
|---------------|-------------------------|--------------------|---------------------------------|-----------------------|
| Anglesey | Capt. F. W. Cerny Jones | W. O. Jones B.A. | R. H. Protheroe | Arnold Davies M.D. |
| Brecknock | Idris Davies | Albert Jolly | Col. C. G. Cole Hamilton C.M.G. | Herbert Davies |
| Cardigan | M. Ll. O. Williams | Ivor Evans M.A. | Steven Jones | Ernest Jones M.A. |
| Carmarthen | Joseph Roberts | J. W. Nicholas | W. Pictou Phillips | David A. Hughes |
| Caernarvon | W. M. J. Jones | A. Bodvel Roberts | Edward Williams | M. J. P. J. Jones |
| Denbigh | Edward Williams | Edward Parry | G. T. G. G. G. | E. J. Parry Edwards |
| Fflint | Brig. Gen. J. H. Lloyd | H. A. Tilby C.B.E. | Lt. Yarnell Davies | Thos. F. Edwards M.P. |
| Glamorgan | Gen. Wm. Rannall | Henry Rowland | Lt. J. J. Jones | J. F. Williams M.A. |
| Merioneth | W. Jones Williams | H. J. John Owen | Lt. Jones | F. Colson M.D. |
| Montgomery | J. Murray Naylor | Lt. D. Harrison | J. F. Lloyd Williams | F. Lewis Lloyd M.P. |
| Penbroke | Thomas Bowen | F. A. Wheatley | F. T. P. P. P. | E. W. E. Edwards |
| Haverfordwest | R. P. Lewis | H. V. Vaughan | A. B. Michael | H. J. Jones |
| Radnor | | | | C. A. Frostons |

MUNICIPAL DIRECTORY OF WALES AND MONMOUTH

A List of CITIES (in SMALL CAPITALS), Boroughs (in ordinary type) and Urban Districts with a population exceeding 50,000 (in italics).

| Cities, Boroughs, and Urban Districts | Popu- lation 1901 | Rate per £ 1000 | | Rateable Value | Town Clerk (or Clerk & Co.) | Mayor 1900-01 * Lord Mayor (Chairman L.D.C.) |
|---------------------------------------|-------------------------|-----------------|-------|-------------------|--------------------------------|--|
| | | Earth | Death | £ | | |
| Aberdare, Glamorg. | 55,010 | 14.5 | 11.7 | 178,308 | W. P. Morgan & Co. | J. D. M. Powell |
| Aberystwyth, Mon. | 9,000 | 16.1 | 9.8 | 45,367 | Wm. H. Hopwood | W. Horsington |
| Aberystwyth, Card. | 11,880 | 11.7 | 15.4 | 54,378 | J. J. Samuel & Co. | H. Hughes |
| Llanwrthwl, Card. | 11,031 | 15.4 | 11.9 | 44,658 | J. Pentir Williams | William R. Jones |
| Barnstaple, Anglesey | 1,830 | 12.3 | 11.07 | 10,459 | J. Hugh Thomas | J. H. Burton |
| Barnstaple, Mon. | 5,649 | 12.8 | 13.8 | 24,490 | J. Hyatt Williams | W. T. Davies |
| Barnstaple, Card. | 3,301 | 11.2 | 11.4 | 35,163 | R. H. Roberts | D. Elliott Alvis |
| Carmarthen, Glamorg. | 119,688 | 18.1 | 11.6 | 106,479 | (see below) | (see below) |
| Carmarthen, Card. | 3,451 | | | | | |
| Carmarthen, Mon. | 10,070 | 13.8 | 15.3 | | | |
| Conway, Carn. | 10,000 | 12.4 | 13.6 | | | |
| Conwy, Glamorg. | 1,159 | 13.04 | 13.09 | | | |
| Denbigh, Mon. | 6,783 | 16.13 | 13.5 | | | |
| Denbigh, Card. | 6,410 | 13.3 | 13.7 | | | |
| Haverfordwest, Pemb. | 5,750 | 17.48 | 13.61 | | | |
| Kidwelly, Carn. | 3,181 | 12.4 | 11.4 | | | |
| Lampeter, Card. | 1,813 | | | | | |
| Llanabry, Carn. | 1,931 | 17.2 | 9.5 | | | |
| Llanabry, Carn. | 37,180 | 17.07 | 11.25 | | | |
| Llanfyllin, Montg. | 1,639 | 12.4 | 11.2 | | | |
| Llanfyllin, Mon. | 2,517 | 14.5 | 17.3 | | | |
| Merthyr Tydfil | 80,101 | 15.8 | 11.9 | | | |
| Monmouth, Mon. | 5,207 | 15.0 | 17.7 | | | |
| Monmouth, Card. | 951 | 14.3 | 16.3 | | | |
| Neath, Glamorg. | 32,514 | 18.2 | 10.0 | | | |
| Newport, Mon. | 93,700 | 17.79 | 11.19 | | | |
| Newport, Card. | 15,481 | 16.9 | 14.6 | | | |
| Port Talbot, Glam. | 40,039 | 18.3 | 10.83 | | | |
| Port Talbot, Card. | 3,811 | 17.9 | 12.8 | | | |
| Swansea, Glamorg. | 161,717 | 17.3 | 11.5 | | | |
| Swansea, Card. | 2,767 | 0.8 | 13.0 | | | |
| Swansea, Mon. | 159,600 | 18.4 | 12.54 | | | |
| Treby Penrhyn | 4,830 | 12.5 | 14.7 | | | |
| Welshpool, Montg. | 5,677 | 12.5 | 11.8 | | | |
| Wrexham, Denbigh | 19,000 | 15.4 | 12.8 | | | |

Jones

CARDIFF

SWANSEA

an iron works, iron and steel foundries, patent fuel works, engine wagon works, flour mills, includes coal (the largest anthracite port)

City Officers.

Mayor (1900-01) T. A. Lovell

Recorder E. E. Vaughan W.

Town Clerk H. L. Lang Coats.

WELSH COUNTIES

| County or Shire and Administrative Headquarters. | Geographical Boundaries | | Administrative Boundaries | |
|--|-------------------------|------------|---------------------------|------------|
| | Acreage | Population | Acreage | Population |
| Anglesey (Shire Hall Llangefni) | 176 630 | 51 695 | 176 630 | 51 695 |
| " | 469 281 | 61 257 | 469 281 | 61 257 |
| " | 443 189 | 61 252 | 443 189 | 61 252 |
| " | 588 472 | 175 069 | 588 472 | 175 069 |
| " | 366 005 | 131 034 | 366 005 | 131 034 |
| " | 426 080 | 154 847 | 426 080 | 154 847 |
| " | 163 707 | 106 466 | 163 707 | 106 466 |
| " | 520 456 | 1 252 710 | 474 607 | 814 777 |
| " | 422 372 | 45 450 | 422 372 | 45 450 |
| " | 510 110 | 51 317 | 510 110 | 51 317 |
| " | 393 003 | 92 056 | 393 003 | 92 056 |
| " | 301 165 | 23 528 | 301 165 | 23 528 |
| Total | 4 780 479 | 2 206 712 | 4 734 621 | 1 764,774 |

LORDS LIEUTENANT HIGH SHERIFFS AND CHAIRMEN OF Qs

| County or Shire | Lord Lieutenant | High Sheriff 1929-30 | Chairman of Qs |
|-----------------|---|-------------------------------------|------------------------------------|
| Anglesey | Sir R. H. Williams Bulkeley Bt. K.C.B. [D.S.O.] | Lt.-Col. R. C. Dwyer-Hampton D.S.O. | Col. T. E. J. Lloyd |
| Brecknock | Lord Glanusk C.B. C.B.E. | D. M. Evans Bevan | His Honour Judge Ivor Bowen K.C. |
| Cardigan | Earl of Lisburne | W. E. Ll. Davies | A. T. James, K.C. |
| Cardigan | Lord Dynevor | John Mayberry Bevan | Sir F. D. W. Jones |
| Cardigan | John Ernest Greaves C.B.E. | Sir R. Armstrong-Jones, C.B.E. | mond K.C. |
| Denbigh | Col. R. W. H. Williams Maf. W. C. B. Williams | Wynn C.B. D.S.O. | George O'K. |
| Flint | Henry Neville Glasstone | R. Adm. Rafe Grenville | Rt. Hon. Sir J. E. Banks K.C. |
| Flint | Earl of Plymouth, G.B.E. | Rowley Conway | Lt. Col. Sir F. Williams, Bt. K.C. |
| Glamorgan | C.B. | William Nimons | D.S.O. |
| Merioneth | " | " | " |
| Montgomery | " | " | " |
| Pembroke | " | " | " |
| Haverfordwest | " | " | " |
| Radnor | " | " | " |

OTHER WELSH COUNTY OFFICIALS

| County &c. | Chairman of C.C. | Clerk of the Peace | Chief Constable | Medical Officer |
|---------------|-----------------------------------|---------------------|---|-----------------------|
| Anglesey | Capt. F. W. Cemlyn Jones | W. O. Jones D.A. | R. H. Prothero | Arnold Davies M.B. |
| Brecknock | Idris Davies | Albert Jolly | Col. C. G. Cole Hamilton, C.M.O. D.S.O. | Herbert Davies M.B. |
| Cardigan | M. Ll. G. Williams | Ivor Evans M.A. | Steven Jones | Ernest Jones M.B. |
| Cardigan | Joseph Roberts | J. W. Nicholas | W. Picton Phillips | David A. Hughes M.B. |
| Cardigan | W. Morris Jones | A. Noel Roberts | Edward Williams | E. J. Parry Edwards |
| Denbigh | Edward Williams | Edward Parry | G. I. Guest | Thos. P. Jones M.B. |
| Flint | Brig. Gen. J. H. A. Lilly, O.B.E. | L. A. Lilly, O.B.E. | L. Varnell Davies | A. E. Williams M.B. |
| Glamorgan | Per. Wm. Saunders | Henry Rowland | L. Lloyd M.V.O. | E. Alden W. Lusk M.B. |
| Merioneth | W. Jones Williams | Hugh John Owen | R. Jones | T. Lewis Lloyd M.B. |
| Montgomery | J. Murray Taylor | G. L. D. Harrison | J. E. Lloyd Williams | E. W. Richards M.B. |
| Pembroke | Thos. Jones | R. A. Wheatley | F. T. R. Summers | H. M. Jones M.B. |
| Haverfordwest | " | R. L. | " | C. A. Jones M.B. |
| Radnor | R. P. Lewis | H. V. Vaughan | A. B. Michael | J. W. Lloyd M.B. |

MUNICIPAL DIRECTORY OF WALES AND MONMOUTH

A list of *CITIES* (in small capitals), *Boroughs* (in ordinary type), and *Urban Districts*, with a population exceeding 50,000 (in *italics*).

| Cities, Towns, and Urban Districts | Population 1901 | Rate per 1,000 | Rateable Value | Town Clerk (or Clerk L.D.C.) | Mayor 1909-10 (or Lord Mayor Chairman L.D.C.) |
|------------------------------------|-----------------|----------------|----------------|------------------------------|---|
| Aberdare, Glamorg. | 55,010 | 14.5 | £ 1,100,000 | — | — |
| Abercromby, Mon. | 9,008 | 16.1 | £ 1,100,000 | — | — |
| Aberystwyth, Card. | 11,200 | 11.7 | £ 1,100,000 | — | — |
| Llanelli, Card. | 11,032 | 15.4 | £ 1,100,000 | — | — |
| Neammaria, Anglesey | 1,830 | 12.3 | £ 1,100,000 | — | — |
| Neammaria, — | 5,649 | 11.8 | £ 1,100,000 | — | — |
| Neammaria, — | 8,301 | 11.8 | £ 1,100,000 | — | — |
| Cardiff, Glamorg. | 119,688 | 18.1 | £ 1,100,000 | — | — |
| Cardiff, — | 3,452 | — | £ 1,100,000 | — | — |
| Cardiff, — | 10,070 | 13.8 | £ 1,100,000 | — | — |
| Conway, Carn. | 10,000 | 12.4 | £ 1,100,000 | — | — |
| Conwy, Glam. r. | 1,159 | 13.04 | £ 1,100,000 | — | — |
| Denbigh, — | 6,783 | 16.13 | £ 1,100,000 | — | — |
| Denbigh, — | 6,410 | 13.3 | £ 1,100,000 | — | — |
| Haverfordwest, Pemb. | 5,750 | 17.48 | £ 1,100,000 | — | — |
| Kidwelly, Carn. | 3,181 | 20.4 | £ 1,100,000 | — | — |
| Lampeter, Card. | 1,813 | — | £ 1,100,000 | — | — |
| Llanllyfenni, Carn. | 1,032 | 17.1 | £ 1,100,000 | — | — |
| Llanelli, Carn. | 37,180 | 17.07 | £ 1,100,000 | — | — |
| Llanfyllin, Montg. sh. | 1,630 | 12.4 | £ 1,100,000 | — | — |
| Llanidloes, Montg. sh. | 2,517 | 14.5 | £ 1,100,000 | — | — |
| Merthyr Tydfil | 20,161 | 15.8 | £ 1,100,000 | — | — |
| Monmouth, Mon. | 5,007 | 15.0 | £ 1,100,000 | — | — |
| Monmouth, — | 951 | 14.3 | £ 1,100,000 | — | — |
| Neath, Glamorg. | 32,514 | 18.2 | £ 1,100,000 | — | — |
| Newport, Mon. | 93,700 | 17.70 | £ 1,100,000 | — | — |
| Pembroke | 15,481 | 16.9 | £ 1,100,000 | — | — |
| Port Talbot, Glam. | 40,039 | 18.3 | £ 1,100,000 | — | — |
| Port Talbot, Carn. r. | 3,811 | 17.9 | £ 1,100,000 | — | — |
| Llanidloes, Glamorg. | 16,717 | 17.3 | £ 1,100,000 | — | — |
| Llanidloes, — | 2,767 | 10.1 | £ 1,100,000 | — | — |
| Swansea, Glam. sh. | 159,600 | 18.2 | £ 1,100,000 | — | — |
| Tenby, Pemb. | 4,830 | 12.5 | £ 1,100,000 | — | — |
| Welshpool, Montg. sh. | 5,677 | 18.5 | £ 1,100,000 | — | — |
| Wrexham, Denbigh | 19,008 | 15.4 | £ 1,100,000 | — | — |

CARDIFF

SWANSEA

W. R. C. (1908).
Town Clerk & Clerk of the Peace Cecil G. Brown,
LL.B.

Mayor (1909-10), J. J.
Recorder R. E. L. J.
Town Clerk H. L. J.

containing *Don Mure* (3185 feet), *Don Iuy* *The Sals*—During the later years of the Roman
 (2954 feet) and *Don Church* (2976 feet) *to us* *the wall in the middle of the*

SCOTTISH COUNTY OFFICIALS

| Counties. | County Clerk | Clerk of the Peace | Chief Constable. |
|------------------|---------------------------------------|---|---|
| Aberdeen | Wm. Murray OBE LLN | Archibald Murray OBE | John Gault |
| Angus (Forfar) | P. W. Anderson | F. C. Fowler | D. Christie |
| Argyll | Malcolm Sinclair | Malcolm Sinclair | D. A. Foss |
| Ayr | James F. Shaw | John Howie | Capt. R. F. Murray |
| Barr | G. A. Cunningham and J. T. Tugla | J. L. M. Naughton OBE | William Hope |
| Berwick | E. J. Kingston OBE | Alexander N. McDougall | John Morren |
| Bute | David Arnot | T. W. Alexander | John R. Bertaugh Paisley |
| Caithness | James V. H. H. H. H. | G. A. Green Wick | Wm. K. Cornsack, Wick |
| Clackmannan | Thos. Cunningham Blanks | James Cuthbert | John Scott |
| Dumfries | John J. Brown | B. McGowan | William Ford |
| Dunbarton | David Watson | John W. I. Craig | Neill McLennan |
| East Lothian | George Cruikshank | A. C. Stevenson | Maj. S. W. Douglas, DSO |
| Edin or Moray | F. D. Jackson | D. A. Shilch | William Stewart |
| Fife | J. M. Mitchell | L. Osborne Lagau W. F. | J. Tennant Gordon OBE |
| Inverness | J. W. Mackillop | D. Noble | Maj. A. C. Maclean |
| Kincardine | John Falconer | J. B. Cunningham | Robert Mitchell |
| Kinross | D. A. J. Cuthbert | D. A. H. Cuthbert | J. Tennant Gordon OBE |
| Kirkcubright | Alam F. W. | Patrick Gifford | Alex. Donald |
| Leamark | John McWhie and J. E. Walker | James Annan Upper Bd J. F. Brown LL.D. Middle Bd | Alexander Nesbit Keith Maj. S. W. Douglas, OBE D.S.O. |
| Midlothian | Mr. A. G. G. Asher OBE W. S. | W. B. Robertson S.S.O. S.F. | John Bruce |
| Nairn | John McFadden | H. G. Strachan | John Muir Fulloch |
| Orkney | Duncan J. Robertson OBE | D. J. Robertson OBE | Maj. S. W. Douglas, OBE, D.S.O. |
| Perth | J. Ramsay Smith and Wm. Y. Blackwood | William F. Blackwood | M. J. Martin |
| Perth | T. B. Marshall | Alexander Stewart | John Robertson |
| Perth | J. Caldwell Fraser | T. MacRobert | Capt. D. Finlayson, OBE |
| Perth & Cromarty | John Fraser, Dingwall | W. R. Dewar | John Morren |
| Perth | J. St. John Smith, Perth, W. K. Kelso | F. Colledge Halliburton | J. John Morren |
| Perth | W. C. Dundas LL.B. | J. Mowbray Kincaid | Gifford Gray |
| Perth | A. Sutherland | A. Sutherland | Charles L. Middleton |
| Perth | James Learmonth | A. C. Buchanan | Hugh Chisholm |
| Perth | Archibald Argy | J. M. Crooke | Maj. S. W. Douglas, OBE D.S.O. |
| Perth | J. G. J. Henderson W.S. | A. P. Simpson, OBE, W.S. | Alexander Donald |
| Perth | A. Aitken Stranraer | Percy J. Adair Stranraer | |

* The Cities of Edinburgh, Glasgow, Dundee and Aberdeen are each a County of a City and the Lord Provost of each is entitled by virtue of his office to be appointed Lord Lieutenant.

DUNDEE

DUNDEE a City Parliamentary Municipal

ABERDEEN

ABERDEEN, a City and a Royal Municipal and Parliamentary Burgh 120 miles N.E. of

| Provinces Counties (with Areas Towns and County Boroughs) | Area | Population, 1926 | Density of Pop. per sq. r. |
|---|-----------|------------------|----------------------------|
| *Northern Ireland — | | | |
| ULSTER | | | |
| County Antrim | 708 851 | 191 643 | 27 |
| County Down | 14 797 | 415 151 | 27 95 |
| County Londonderry | 312 767 | 110 070 | 35 |
| County Fermanagh | 608 861 | 209 228 | 34 |
| County Tyrone | 417 912 | 57 984 | 14 |
| County Armagh | 512 494 | 94 534 | 18 |
| County Derry | 2 199 | 45 159 | 21 14 |
| County Donegal | 779 503 | 132 792 | 17 |
| Total Northern Ireland | 3,351,444 | 1,256,561 | 37 |

♂ Males, 608 085 Females 648 473. Increase 1911 1926 0.5 per cent.

| Provinces Counties and County Boroughs | Area | Population, 1926 | Density of Pop. per sq. r. |
|--|------------|------------------|----------------------------|
| †The Irish Free State — | | | |
| LEINSTER | | | |
| Carlow (Carlow) | 221 485 | 34 476 | 15 |
| Dublin (Dublin) | 219,344 | 188 961 | 86 |
| Dublin County Borough | 8,357 | 116 603 | 13 95 |
| Kildare (Naas) | 418 644 | 58 028 | 14 |
| Kilkenny (Kilkenny) | 509 470 | 70 990 | 14 |
| King's (Tullamore) | 493 637 | 52,592 | 11 |
| Longford (Longford) | 257 935 | 39 847 | 15 |
| Louth (Dundalk) | 202 814 | 62 739 | 31 |
| Meath (Irish) | 577 816 | 62 969 | 11 |
| Queen's (Maryborough) | 424 892 | 51 540 | 12 |
| Westmeath (Sligo) | 435 604 | 56 818 | 13 |
| Wexford (Wexford) | 580,894 | 95 848 | 16 |
| Wicklow (Wicklow) | 500 244 | 57 591 | 11 |
| | 4 831 136 | 1 149,091 | 23 |
| MUNSTER | | | |
| Clare (Ennis) | 787 763 | 95 064 | 12 |
| County Kerry | 1 840 905 | 287 257 | 15 |
| County Cork | 2 685 | 78 490 | 29 |
| County Limerick | 1 161 708 | 149 171 | 13 |
| County Tipperary | 661 573 | 100 895 | 15 |
| County Waterford | 2,366 | 39 448 | 16 581 |
| County Wick | 493 255 | 59 645 | 12 |
| County Wexford | 558 034 | 81 370 | 14 |
| County Carlow | 453 051 | 51 915 | 11 |
| County Wick | 1,438 | 26 647 | 18 600 |
| | 5 962 803 | 969 902 | 16 |
| CONNAUGHT | | | |
| Galway (Galway) | 1 467,639 | 169 366 | 11 |
| Letterkenny (Letterkenny) | 376 774 | 55 907 | 15 |
| Mayo (Castlebar) | 1 333 941 | 172 690 | 13 |
| Sligo (Sligo) | 608 540 | 83 566 | 14 |
| County Donegal | 443 928 | 71,368 | 16 |
| | 4,930 822 | 551 907 | 11 |
| ULSTER | | | |
| Cavan (Cavan) | 467 162 | 82 451 | 17 |
| Donegal (Letterkenny) | 1 793 573 | 152 508 | 82 |
| Monaghan (Monaghan) | 318 985 | 65 131 | 20 |
| | 1 979 720 | 300 091 | 15 |
| Total Irish Free State | 17 022,481 | 2 971,992 | 17 |

* NORTHERN IRELAND — Under the Government of Ireland Act 1920, as amended by the Irish Free State (Agreement) Act 1922, the Irish Free State (Consequential Provisions) Act 1922 and the Ireland (Constitution) Act 1925 Northern Ireland comprises the cities of Belfast and Londonderry.

Provisional
and Monaghan

Northern Ireland.

THE GOVERNOR

His Grace the Duke of Argyll and Argyll, K.G., born 1869, appointed Governor 1922, re-appointed for further term Dec. 8 1928 (Government House, Hillsborough, Northern Ireland. Telegrams: Governor Belfast, Telephones: Official, Hillsborough 19, Private Hillsborough 18) £8,000

Private Secretary and Comptroller, Lieut. Colonel Oscar Henderson, C.B.E., D.S.O., R.N. (ret'd)

Adjutant-General, Capt. H. de C. Martelli, M.C.

Honorary Chaplain, Lieut. Colonel F. H. M. Clintock, C.B.E., D.L., Capt. Sir Basil Brooke,

AREA AND POPULATION OF IRELAND

Provinces, Counties with Ancestral Towns
and County Boroughs

| | Average | Population, 1901 | Density of Pop. per sq. m. |
|-------------------------------|------------------|------------------|----------------------------|
| *Northern Ireland — | | | |
| † LSTER | | | |
| Antrim (Belfast) | 700 851 | 191 643 | |
| Lisburn County Borough | 14 797 | 415 151 | |
| Armagh (Armagh) | 318 767 | 110 070 | |
| Down (Downpatrick) | 608 861 | 809 228 | |
| Fermanagh (Fermanagh) | 417 918 | 57 984 | |
| Longferry (Longferry) | 518 494 | 94 534 | |
| Londonerry (Londonerry) | 8 199 | 45 159 | 118 |
| Tyrone (Omagh) | 779 503 | 132 732 | 113 143 |
| Total Northern Ireland | 3 351 444 | 1 150 381 | 109 |
| † Wales, 608 088 | | | 140 |

Increase 1901-1906 = 5 per cent.

Provinces, Counties and
County Boroughs

| | Average | Population, 1901 | Density of Pop. per sq. mile. |
|-------------------------------|-------------------|------------------|-------------------------------|
| †The Irish Free State | | | |
| † LSTER | | | |
| Carlow (Carlow) | 221 484 | 34 476 | 100 |
| Dublin (Dublin) | 219 344 | 188 061 | 551 |
| Dunblin County Borough | 8 357 | 118 603 | 24 453 |
| Kildare (Naas) | 418 644 | 58 028 | 89 |
| Kilkenny (Kilkenny) | 509 470 | 74 990 | 84 |
| Kings (Kings) | 493 637 | 54 594 | 68 |
| Lisford (Lisford) | 257 035 | 39 847 | 90 |
| Louth (Louth) | 208 814 | 62 730 | 198 |
| Meath (Meath) | 577 816 | 62 969 | 79 |
| Queen's (Queen's) | 444 892 | 51 540 | 4 |
| Westmeath (Westmeath) | 435 604 | 50 818 | 83 |
| Westford (Westford) | 580 894 | 95 848 | 106 |
| Wicklow (Wicklow) | 500 244 | 57 591 | 74 |
| † MCHSTER | | | |
| Clare (Ennis) | 4 851 136 | 1 149 091 | 133 |
| Cork (Cork) | 787 763 | 95 064 | 77 |
| Cork County Borough | 1 840 905 | 207 257 | 100 |
| Kerry (Kerry) | 8 685 | 78 490 | 18 409 |
| Limerick (Limerick) | 1 161 708 | 149 171 | 32 |
| Limerick County Borough | 661 573 | 100 695 | 68 |
| " " | 8 386 | 39 448 | 10 581 |
| " " | 493 255 | 59 645 | 77 |
| " " | 558 034 | 81 370 | 93 |
| " " | 453 051 | 51 915 | 73 |
| " " | 1 436 | 26 647 | 11 260 |
| † CONNACHT | | | |
| Galway (Galway) | 5 962 803 | 969 902 | 104 |
| " " | 1 457 630 | 169 366 | 74 |
| " " | 376 774 | 55 097 | 95 |
| " " | 1 337 941 | 172 690 | 83 |
| " " | 608 540 | 83 556 | 83 |
| " " | 443 928 | 71 388 | 103 |
| † ULSTER | | | |
| Antrim (Antrim) | 4 230 822 | 552 907 | 84 |
| Down (Down) | 467 182 | 82 458 | 113 |
| Fermanagh (Fermanagh) | 1 193 573 | 152 508 | 82 |
| Lisburn (Lisburn) | 318 965 | 65 131 | 131 |
| Total Irish Free State | 17 979 720 | 3 000 001 | 97 |
| NORTHERN IRELAND | 17 024 481 | 1 150 381 | 112 |

Northern Ireland.

THE GOVERNOR

His Grace the DUK OF ARFORD, K. G. K. P., born 1869, appointed Governor 1922, re-appointed for further term Dec. 8 1928 (Government House, Hillsborough, Northern Ireland. Telegrams Governor Belfast, Telephones Official, Hillsborough 19, Private Hillsborough 18) £8,000

Private Secretary and Comptroller, Lieut.-Colonel Oscar Henderson, C. B. E., D. S. O., R. V. (ret'd.)

Adjutant-General, Capt. H. de la Martelli, M. C.

Honorary Chaplain, Lt.-Colonel H. M. Minto, C. B. E., D. L., Capt. Sir Basil Brooke,

H. G. H. Mulvihill M.P.
lack of Maj. T. Dally Hackett D.C.O.
Chairman of Ways and Means and
Speaker Lt. H. H. H. Mac Mole, M.P.
Commandant of Arms Bn., Gen. H. G. Young C.B.
D.C.O.
Abramson, W. S. Gilman

Secretary of the Parliaments A. O'Neill
Clerk Assistant Maj. George The
M. A. G. Young

THE JUDICATURE.
SUPREME COURT OF JUDICATURE,
BELFANT
Judges.
The 1st Hon. William Moore, Lord Chief
Justice of Northern Ireland £5,000
The 1st Hon. Lord Justice (James) Andrews
£4,000 The 1st Hon. Lord Justice (Richard)
Leit £4,000 The Hon. Mr. Justice (Daniel)
C. C. The Rt. Hon. Mr.

Assistant J. J. O'Sullivan, B.A.
Asst. Registrar, J. O. Breakey, E. McQuilty.

| | | |
|--|-------------|-------------|
| Total revenue | £11,000,000 | £11,000,000 |
| Total expenditure (including loans) | £10,990,000 | £11,000,000 |

of 1,003,837 The pig stock, 276,519. Potatoes, 2,154,130; turnips
965,839. Hay, 5,855; hay, 794,825. The Liv
stock included 738,005 cattle, 64,084 sheep
229,128 pigs 51,443 goats; 205,254 horses, 25
mules, and 12,373 asses.

Principal Industries.—Agriculture shipbuilding
flax spinning and weaving
herring fishing and pickling is so much a
summer months.

Saorstát Éireann—The Irish Free State.

THE GOVERNOR GENERAL.

His Excellency **JAMES McNeill** born March 27 1869 appointed Governor General
Dec 1 1927 £10,000

CONSTITUTION AND GOVERNMENT

From the Irish Constitution Act 1922, the following provisions shall have effect in relation to the Governor General.

TRAFFIC—PRINCE COSANTA.

House of Representatives
Envoys Extraordinary
To H. E. Michael MacWhite (1930)
Washington D. C.

FINANCE.

| | 1928-29. | 1929-30. |
|----------------------------|-------------|-------------|
| Estimated Revenue | £31,463,000 | £30,375,000 |
| Estimated Expenditure | £21,463,000 | £20,375,000 |
| Surplus | £10,000,000 | £10,000,000 |
| From Customs | £1,000,000 | £1,000,000 |
| Duties | £1,000,000 | £1,000,000 |
| Income and Corporation Tax | £1,000,000 | £1,000,000 |
| Profit Tax | £1,000,000 | £1,000,000 |
| Miscellaneous | £1,000,000 | £1,000,000 |
| Net for reproduction | £1,000,000 | £1,000,000 |

Government
Fianna Fail
Labour
Independents
National League
The Speaker

Total

Members of Dáil Éireann, other than Ministers, are allowed £30 a month towards travelling facilities.

Under root and green crops 80,000 acres, 2,334 under fruit, and 2,335,436 under hay at 1934. The principal produce is 1,368,368 acres. The principal produce is 1,368,368 acres.

1928-29.
1929-30.
value
Bills
rupee
Hori

1928-29.
1929-30.
value
Bills
rupee
Hori

THE INDIAN EMPIRE extends over a larger space than the Empire of Russia. Legally, through the Governor to the Governor-General territories of any part the Governor General Governor-General of territory in the N.W. under the title of trustee of the Indian Government.

Boundaries—The political boundary of India matches with Persia and Afghanistan from the Gulf of Ch point the frontier—on Nepal till the front frontier on leave the half-way and on the Andaman and Nic besides the front Andaman till the 37° N latitude and 77° E long.

follows —

[illegible]

* Districts and Administered Territories

Physical Features—Excluding Burma, which forms no part of the Indian peninsular, we may broadly divide the country into three sections, viz., the Himalayan mountains, the northern river-plains, and the southern table land.

The Himalayas - The Himalayas (which lie partly beyond the frontier) with t

1 journey is taken from the plains
Sunda, Mysore Nainital and

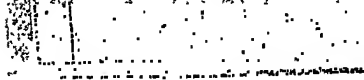
Great fever high at 1 P.M.; at 2 P.M. it subsided and continued until 6 P.M.

The Ganges The north river plains lying at the foot of the Himalayas comprises the Ganges and its tributaries the Yamuna for 1,500 miles. The Yamuna for 900 miles and collecting various other streams joins the Indus at a point which forms a junction of about 1,500 miles drains almost all the

in leopard's breath
near a lot of
a variety of palm
in the central low
and thick populated

1 ream of Galichuan

The Deccan.—In the Himalayas on the N. and the Hindu Kush and Sulaiman



Languages—India has 272 vernacular languages, of extraordinary variety. The languages spoken by 316,000,000 persons in 1921 are grouped in seven families. The

LARGE CITIES WITH POPULATIONS EXCEEDING 100,000 (with 1901 Census figures)

| | 1901 | In 1921 | | In 1901 | In 1921 |
|-------------|-----------|-----------|--------------|---------|---------|
| Calcutta | 1,377,547 | 1,278,279 | Amritsar | 160,218 | 152,756 |
| Allahabad | 1,175,914 | 979,443 | Aligarh | 157,200 | 173,697 |
| Bombay City | 546,911 | 518,660 | Mysore | 148,917 | 138,099 |
| Hyderabad | 404,187 | 501,648 | Nagpur | 145,193 | 161,413 |
| Madras | 341,962 | 292,316 | Secunderabad | 141,735 | 130,202 |
| Delhi | 304,420 | 238,837 | Madurai | 138,864 | 135,113 |
| Lahore | 281,781 | 208,687 | Bareilly | 129,459 | 129,681 |
| Almora | 274,007 | 232,772 | Norwich | 122,609 | 116,531 |
| Lucknow | 240,566 | 252,114 | Tripunavady | 120,422 | 117,512 |
| Barrackpore | 237,406 | 189,485 | Jaipur | 120,207 | 137,096 |
| Kanpur | 216,883 | 151,903 | Patna | 119,906 | 116,153 |
| Cawnpore | 216,436 | 178,557 | Bhopal | 119,581 | 111,541 |
| Punjab | 114,796 | 188,701 | Bacca | 119,450 | 108,351 |
| Bombay | 198,447 | 203,804 | Kharagpur | 117,434 | 114,438 |
| Agra | 183,532 | 185,449 | Ajmer | 113,512 | 86,222 |

A Brief Sketch of Indian History

and can be of value

to (see efforts the company in 1765 received Treaty of Poona (1816) which still regulates its in the Emperor at Delhi the / and / fiscal / dis / relations with that state. The ad / ministration of Bengal / Bihar and Orissa, annexation in 1818 of the territory of / with the Northern / Province /

25,000,000 /

thus were /

territorial /

After a /

(1772-85) /

in 1774 /

tion of /

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Hydrabad /

(1785) and /

Nizam /

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increased /

Meetings Act was passed. A great Darbar was held at Delhi on 12 December 1911 by H. M. report In 1919 a bill was introduced into Parliament embodying the proposals of the

The Government of India.

EMPEROR OF INDIA—H I M GEORGE V

Secretary of State—The Right Hon W Welbwood Knut D C O D F C, M P

PROVINCIAL GOVERNMENTS AND ADMINISTRATIONS*

CONSTITUTION OF THE PROVINCIAL LEGISLATIVE COUNCILS

| Members elected by to represent | Legislative Councils of | | | | | | | | | |
|---|-------------------------|--------|--------|---------------------|--------|--------------------------------|--------------------------------|-------|-------------------|---------------|
| | Madras | Bombay | Penjab | United Provinces | Punjab | Chief Commissioner District | Chief Commissioner District | Assam | Bihar & Orissa | Cooch Doon |
| Non-Muhammadans | 65* | 46† | 46 | 60 | 20 | 42 | 29 | 20 | | |
| Muhammadans | 13 | 27 | 39 | 29 | 32 | 18 | 4 | 12 | | |
| Indian Christians | 5 | | | | | | | | | |
| Europeans | 2 | 2 | 5 | 1 | | 1 | | | 1 | 2 |
| Anglo-Indians | 1 | | | | | | | | 1 | |
| Landholders | 6 | 3 | 5 | 6 | 4 | 5 | 2 | | 1 | |
| Universities | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| Planting Interests | 1 | | | | | 3 | | 5 | | |
| Commerce and Industry | 5 | 7 | 15 | 3 | 2 | | 1 | 1 | 5 | |
| Mining | | | | | 12 | | | | | |
| Mining Interests | | | | | | | 1 | | | |
| General Urban Population | | | | | | | | 1 | 14 | |
| Indian Urban Population | | | | | | | | | 8 | |
| General Rural | | | | | | | | | 5 | |
| Jains | | | | | | | | | 44 | |
| Non-Jains | | | | | | | | | | 9 |
| Total elected | 98 | 86 | 114 | 100 | 71 | 76 | 38 | 39 | 79 | 15 |
| Total nominated including Members of the Executive Councils | 34 | 28 | 26 | 23 | 23 | 27 | 35† | 14 | 24 | 5 |
| Grand Total | 132 | 114 | 140 | 123 | 94 | 103 | 73 | 53 | 103 | 20 |
| of the total | | | | | | | | | | |

the case of Indian candidates the age limits | forms can be obtained from the Secretary

| EXPENDITURE (in lakhs of rupees) | CHARGED AGAINST (In lakhs of rupees) | REVENUE— | | | REVENUE AND EXPENDITURE OF THE PROVINCIAL GOVERNMENTS 1927-28 | | | |
|-------------------------------------|---|----------|------------|--------|---|---------|-------------|---------|
| | | Local | Provincial | Total | (In lakhs of rupees) | Revenue | Expenditure | Balance |
| Grant, Aun-ties &c | 2575.2 | 5 | | 2575.7 | Madrās | 1699.8 | 1498.7 | +201.1 |
| Grant on capital account | | | | | Bombay | 1534.5 | 1563.3 | -28.8 |
| Contributed by Com- missioners | 151.9 | | | 151.9 | Central Pro- vinces & Berar | 1081.3 | 1085.6 | -4.3 |
| Other expenditure | 522.6 | 2 | | 522.8 | Punjab | 1285.4 | 1274.8 | +10.6 |
| Total | 3229.7 | 7 | | 3240.4 | Burma and Shan- States | 1225.6 | 1233.1 | -7.5 |
| Interest on debt | 12.0 | 366.4 | | 378.4 | Madras and Orissa | 572.4 | 587.1 | -14.7 |
| Other expenditure | 5.4 | 298.0 | | 303.4 | Central Pro- vinces & Berar | 539.8 | 537.7 | +2.1 |
| Total | 17.4 | 664.4 | | 701.8 | Assam | 269.4 | 221.5 | +47.9 |
| Telegraphs | | | | | Coorg | 24.0 | 22.7 | +1.3 |
| Interest on debt | 60.4 | | | 60.4 | Total | 9329.5 | 9150.4 | +179.1 |
| Other expenditure | 18.3 | | | 18.3 | Equals (at present value) (000,000 Rs.) | £69,972 | £68,629 | £+1,343 |
| Total | 78.7 | | | 78.7 | | | | |

| | | | |
|-------------------|--------|-------|--------|
| Other expenditure | 537.0 | 197.7 | 734.7 |
| Other expenditure | 1024.1 | 51.0 | 1075.1 |
| Total | 1561.1 | 248.7 | 1809.8 |

| | | | |
|-------------------------|--------|--------|--------|
| General Administration | 172.2 | 1117.7 | 1289.9 |
| Justice | 88.7 | | 88.7 |
| Police | 103.9 | 1367.6 | 1471.5 |
| Public Works | 33.0 | 21.0 | 54.0 |
| Education | 245.7 | 7.9 | 253.6 |
| Medical & Public Health | 46.7 | 534.4 | 581.1 |
| Agriculture | 29.0 | 231.9 | 260.9 |
| Miscellaneous Deptts. | 54.0 | 110.6 | 164.6 |
| Total | 1120.8 | 5198.4 | 6319.2 |

| | | | |
|---------|------|--|------|
| Revenue | 87.7 | | 87.7 |
|---------|------|--|------|

| | | | |
|---------------|-------|------|-------|
| Capital Works | 158.5 | 12.8 | 171.3 |
|---------------|-------|------|-------|

| | | | |
|-------------------------|-------|-------|--------|
| Miscellaneous | | 47.8 | 47.8 |
| Public Works | 25.6 | | 25.6 |
| Education | 250.5 | 380.6 | 631.1 |
| Medical & Public Health | 26.3 | 120.7 | 147.0 |
| Agriculture | 69.9 | 121.7 | 191.6 |
| Miscellaneous | | | |
| Total | 375.3 | 660.8 | 1036.1 |

| | | | |
|---------------|--------|--|--------|
| Miscellaneous | 5633.9 | | 5633.9 |
|---------------|--------|--|--------|

| | | | |
|---------------------|------|------|------|
| Extraordinary Items | 18.2 | 11.6 | 29.8 |
|---------------------|------|------|------|

| | | | |
|----------------------------------|--|------|------|
| Transfer to Revenue Reserve Fund | | 15.0 | 15.0 |
|----------------------------------|--|------|------|

REVISED ESTIMATES, 1928-29

| | | | |
|-------------------|------|------|--|
| Madras | 1239 | 1239 | |
| Central Provinces | 165 | | |

BUDGET ESTIMATES OF THE CENTRAL AND PROVINCIAL GOVERNMENTS 1929-30

| | (In lakhs of rupees) | | Balance |
|---|----------------------|-------------|---------|
| | Revenue | Expenditure | |
| Madras | 1807 | 1600 | +207 |
| Bombay | 1572 | 1500 | +72 |
| Central Provinces | 1166 | 1274 | -108 |
| Punjab | 1207 | 1239 | -32 |
| Madras and Orissa | 1254 | 1149 | +105 |
| Burma | 585 | 613 | -28 |
| Central Provinces and Berar | 1110 | 1154 | -44 |
| Assam | 556 | 527 | +29 |
| Coorg | 279 | 254 | +25 |
| Total | 9651 | 9627 | +24 |
| Central Government ordinary revenue | 13406 | 13406 | |
| Total | 1357 | 13033 | |
| Equals (at present value) (Rs. to 1000000) | £17,293 | £17,275 | £1800 |

INDIAN SYSTEM OF NOTATION—The Indian numerical notation system differs from the European. Large numbers are designated in crores and lakhs and not in hundreds, thousands and millions. A lakh is one hundred thousand (written out as 100,000) and a crore is ten lakhs (written out as 1,000,000). The

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value.

The Indian Empire—Revenue and Expenditure

NET REVENUE AND EXPENDITURE OF THE CENTRAL GOVERNMENT

The following figures are in lakhs of rupees

Debt Service

See page 10

Charges of courts and other judicial and the

Central Government

from commercial and other sources after deducting all expenditure on the public works and other loans for adjustment of revenue and expenditure by legislative authority

Grants (at Rs 23, 10 paise)

plus (+) or Deducted (-) surplus

A separate list of expenditure

Net Revenue (in lakhs of rupees)

Principal Head of Expenditure

Customs

Taxes on Trade

Salt

Offices

Other Revenue

Construction of Works

Railways

Education

Public and Telephone

Currency and Mint

Currency

Mint

Provisional Contingencies and other miscellaneous

State Railways

State and Local Railways

Postal and Telegraph

New Capital and other

Other Capital Expenditure

Total

Equals (at Rs 23, 10 paise)

(in lakhs of rupees)

(in lakhs of rupees)

(in lakhs of rupees)

(in lakhs of rupees)

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(in lakhs of rupees)

(in lakhs of rupees)

A lakh is 100,000 rupees (approx. 100,000 rupees) figures in lakhs

Standard Reserve

comes at the following rates —

Rate of Tax
per 100

| SEA-BORNE TRADE | 1924-25 | 1925-26 | 1926-27 | 1927-28 ^a | 1928-29 |
|--------------------------------|---------|---------|---------|----------------------|-----------|
| Imports of Private Merchandise | | | | | £ 189,971 |
| Government Stores | | | | | 2,569 |
| Total Merchandise | | | | | 192,540 |
| Treasure—Private | | | | | 27,972 |
| Government | | | | | |
| Total Treasure | | | | | 27,972 |
| Total Imports | | | | | 220,512 |
| Exports of Private Merchandise | | | | | £ 247,306 |
| Indian Produce &c | 288,499 | 282,132 | 226,077 | 239,365 | 58,513 |
| Foreign Goods (re-export) | 10,132 | 7,854 | 6,007 | 7,153 | 800 |
| Government Stores | 7,551 | 1,113 | 2,204 | 2,179 | 234,361 |
| Total Merchandise | 306,182 | 291,100 | 234,288 | 248,697 | 239,674 |
| Treasure—Private | 3,685 | 2,638 | 1,503 | 2,069 | 2,190 |
| Government | 191 | 242 | 155 | 283 | 2,366 |
| Total Treasure | 3,876 | 2,880 | 1,658 | 2,352 | 4,556 |
| Total Exports | 310,058 | 293,980 | 235,946 | 251,049 | 244,230 |
| Total Sea-borne Trade | 616,240 | 585,080 | 470,234 | 500,146 | 484,902 |
| Net Imports of Treasure | 0,522 | 28,735 | 29,491 | 23,820 | 23,206 |
| Net Exports of Merchandise | 110,159 | 112,108 | 52,674 | 51,547 | 56,861 |
| | | | | | 33,645 |
| | | | | | at Rs. 15 |

LIST OF THE PRINCIPAL INDIAN RULING PRINCES AND CHIEFS SHOWING THE SALES TO WHICH THEY ARE ENTITLED AND THE AREA OF CULTIVATION PREVAILING RELIGION AND REVENUE OF THEIR STATES

| STATE SALES BY TITLE & CHIEF | In | Ac | P | Prevaling Religion | Revenue last year |
|--|--------|--------|------------|--------------------|-------------------|
| sq. m. | sq. m. | sq. m. | sq. m. | | £ |
| <i>Part of C. P.</i> | | | | | |
| Baroda The Maharaja (Cavalier) of | 1875 | 8 182 | 2 121 875 | Hindus | 2 400 000 |
| Jawal The Maharaja (Cavalier) of | 1925 | 26 582 | 3 195 476 | Hindus | 2 400 000 |
| Dharmad The Maharaja of | 1911 | 82 698 | 12 471 770 | Hindus | 4 095 000 |
| Jannua The Maharaja of the Maharaja of | 1925 | 80 020 | 2 322 030 | Hindus | 2 485 000 |
| Dharmad The Maharaja of | 1895 | 29 460 | 4 859 952 | Hindus | 2 500 000 |
| <i>Part of G. C.</i> | | | | | |
| Pharal The Maharaja of | 1926 | 6 902 | 692 448 | Hindus | 414 000 |
| Pharal The Maharaja of (H. H. H.) of | 1926 | 9 519 | 1 151 598 | Hindus | 370 000 |
| Katol The Maharaja (W. H. H.) of | 1893 | 54 713 | 300 543 | Hindus | 81 000 |
| Pharal The Maharaja of | 1922 | 2 217 | 813 726 | Hindus | 666 000 |
| Mewar (H. H. H.) The Maharaja of | 1884 | 12 691 | 1 380 063 | Hindus | 340 000 |
| Pharal The Maharaja of | 1924 | 7 625 | 4 006 062 | Hindus | 1 337 000 |
| <i>Part of G. C.</i> | | | | | |
| Pharal The Maharaja of | 1907 | 15 000 | 781 191 | Hindus | 346 000 |
| Pharal The Maharaja of | 1909 | 1 993 | 496 437 | Hindus | 198 000 |
| Pharal The Maharaja of | 1887 | 23 315 | 650 685 | Hindus | 255 000 |
| Pharal The Maharaja of | 1927 | 2 220 | 187 068 | Hindus | 69 000 |
| Pharal The Maharaja of | 1914 | 1 417 | 979 019 | Hindus | 416 000 |
| Pharal The Maharaja of | 1876 | 7 6 6 | 484 547 | Hindus | 230 000 |
| Pharal The Maharaja of | 1922 | 15 579 | 2 378 802 | Hindus | 561 000 |
| Pharal The Maharaja of | 1885 | 1 241 | 133 730 | Hindus | 53 000 |
| Pharal The Maharaja of | 1889 | 5 684 | 630 060 | Hindus | 309 000 |
| Pharal The Maharaja of | 1918 | 34 963 | 1 841 462 | Hindus | 800 000 |
| Pharal The Maharaja of | 1900 | 5 931 | 1 499 739 | Hindus | 844 000 |
| Pharal The Maharaja of | 19 8 | 13 000 | 1 401 514 | Hindus | 390 000 |
| Pharal The Maharaja of | 1867 | 2 553 | 287 898 | Hindus | 160 000 |
| <i>Part of G. C.</i> | | | | | |
| Pharal The Maharaja of | 1892 | 3 221 | 701 154 | Hindus | 366 000 |
| Pharal The Maharaja of | 1914 | 1 606 | 190 362 | Hindus | 41 000 |
| Pharal The Maharaja of | 1907 | 911 | 148 659 | Hindus | 120 000 |
| Pharal The Maharaja of | 1899 | 449 | 77 005 | Hindus | 47 000 |
| Pharal The Maharaja of | 1892 | 419 | 66 998 | Hindus | 45 000 |
| Pharal The Maharaja of | 1898 | 1 777 | 230 333 | Hindus | 105 000 |
| Pharal The Maharaja of | 1911 | 1 200 | 230 188 | Hindus | 126 000 |
| Pharal The Maharaja of | 1918 | 1 447 | 189 272 | Hindus | 38 000 |
| Pharal The Maharaja of | 1911 | 1 669 | 226 355 | Hindus | 96 000 |
| Pharal The Maharaja of | 1914 | 16 062 | 67 652 | Hindus | 29 000 |
| Pharal The Maharaja of | 1921 | 6 050 | 193 152 | Hindus | 163 000 |
| Pharal The Maharaja of | 1926 | 858 | 77 734 | Hindus | 33 000 |
| Pharal The Maharaja of | 1874 | 2 979 | 284 948 | Hindus | 67 000 |
| Pharal The Maharaja of | 1929 | 886 | 67 114 | Hindus | 39 000 |
| Pharal The Maharaja of | 1889 | 892 | 453 607 | Hindus | 160 000 |
| Pharal The Maharaja of | 1914 | 2 818 | 81 721 | Hindus | 29 000 |
| Pharal The Maharaja of | 1920 | 1 964 | 185 639 | Hindus | 70 000 |
| <i>Part of G. C.</i> | | | | | |
| Pharal The Maharaja of | 1889 | 875 | 362 725 | Hindus | 178 000 |
| Pharal The Maharaja of | 1919 | 2 860 | 426 404 | Hindus | 277 000 |
| Pharal The Maharaja of | 1922 | 1 307 | 592 489 | Hindus | 241 000 |
| Pharal The Maharaja of | 1911 | 1 107 | 88 406 | Hindus | 167 000 |
| Pharal The Maharaja of | 1895 | 601 | 85 778 | Hindus | 70 000 |
| Pharal The Maharaja of | 1929 | 810 | 96 122 | Hindus | 56 000 |
| Pharal The Maharaja of | 1887 | 1 159 | 308 183 | Hindus | 290 000 |

* This column is intended to show the revenue of the states in which the revenue is not permanent. The revenue of the states in which the revenue is permanent is shown in the column next to it.

Countries Contiguous to India**NEPAL**

His Majesty Maharaja Chandra Shekhar, K. C. S. I., G. C. I. E., was chosen hereditary Maharaja in 1907. He has a salute of 15 guns in British territory. His Majesty's revenue is £12,000.

The Dominion of Canada.

AREA AND POPULATION

| Provinces and Capitals. | Area (English Sq. Miles) Land and Water | Population | |
|--------------------------------------|--|--------------|-------------|
| | | Census, 1921 | Census 1921 |
| Alberta (Edmonton) | 255,285 | 374,295 | 288,415 |
| British Columbia (Victoria) | 355,855 | 592,480 | 524,588 |
| Manitoba (Winnipeg) | 251,837 | 461,394 | 410,111 |
| New Brunswick (Fredericton) | 27,985 | 357,889 | 387,877 |
| Nova Scotia (Halifax) | 21,428 | 492,338 | 523,811 |
| Ontario (Toronto) | 407,262 | 2,507,292 | 2,973,600 |
| Prince Edward Island (Charlottetown) | 2,184 | 93,728 | 83,611 |
| | 591,434 | 2,005,776 | 1,761,197 |
| | 251,700 | 192,437 | 175,511 |
| | 207,076 | 8,512 | 4,151 |
| | 1,309,682 | 6,507 | 7,581 |
| Total | 3,684,723 | 7,206,643 | 8,788,419 |

Land Area, 3,504,683 square miles. Water Area 180,035 square miles. The population, in 1921, was 4,436,361 and the urban population 4,327,127. Of the to migration of 152,911 in 1920-21, 58,880 were from the British Isles and 30,000 from the U.S.A.

* Population of Prairie Provinces 1920—Alberta, 407,599; Manitoba, 629,656; Saskatchewan, 800,720.

Increase of the People

| Census Year | Population | | | Decennial Increase | Immigrants during the Decade |
|-------------|------------|-----------|-----------|--------------------|------------------------------|
| | Males | Females | Total | | |
| 1861 | | | 3,090,561 | | 27,773 |
| 1871 | 1,869,864 | 1,819,993 | 3,689,857 | 598,696 | 47,902 |
| 1881 | 2,188,854 | 2,135,956 | 4,324,810 | 635,553 | 81,275 |
| 1891 | 2,460,471 | 2,372,768 | 4,833,239 | 508,429 | 49,148 |
| 1901 | 2,751,708 | 2,619,607 | 5,371,315 | 538,076 | 311,044 |
| 1911 | 3,811,995 | 3,384,648 | 7,196,643 | 1,825,328 | 148,477 |
| 1921 | 4,549,945 | 4,258,538 | 8,808,483 | 1,611,840 | |

| Racial Origins | 1921 | | Religions | 1921 | |
|----------------|-----------|-----------|--|-----------|-----------|
| | 1911 | 1921 | | 1911 | 1921 |
| British Isles | 3,806,085 | 4,868,903 | Roman Catholics | 2,833,041 | 3,390,616 |
| English | 1,823,150 | 2,545,496 | Presbyterians | 1,116,071 | 1,407,919 |
| Scottish | 997,880 | 1,173,637 | Anglicans | 8,043,037 | 1,190,411 |
| Irish | 1,050,384 | 1,107,817 | Methodists | 1,079,993 | 1,190,411 |
| Other | 25,571 | 41,953 | Baptists | 384,700 | 491,517 |
| European Races | 2,978,617 | 3,696,904 | Lutherans | 209,664 | 260,811 |
| French | 2,054,890 | 2,454,751 | Greek Church | 88,507 | 105,811 |
| Scandinavian | 107,535 | 167,350 | Jews | 74,564 | 96,711 |
| Belgian | 75,681 | 126,196 | Mennonites | 44,625 | 56,711 |
| Italian | 45,411 | 66,469 | Congregationalists | 51,054 | 64,711 |
| Finnish | 33,365 | 53,403 | Confederates | 14,512 | 18,711 |
| Polish | 15,497 | 21,494 | Salvati in Army | 18,434 | 23,011 |
| Belgian | 9,593 | 20,234 | Evangelical Associations | 10,595 | 13,011 |
| Other | 636,645 | 788,696 | Christian Science | 5,013 | 6,011 |
| Asiatic Races | 43,017 | 65,731 | Unitarians | 10,493 | 12,011 |
| Chinese | 27,774 | 39,587 | Brethren | 9,012 | 11,011 |
| Japanese | 9,011 | 15,868 | Buddhists | 10,011 | 12,011 |
| Other | 6,232 | 10,276 | | | |
| Indian | 105,492 | 110,814 | Indian Population (1901) 127,741 (1921) 105,814 (1901) 120,814 (1921) 1,109,411 | | |
| Negro | 16,877 | 18,011 | | | |
| Unspecified | 105,655 | 27,842 | | | |

Canada was originally
 34, when the French to
 is founded by them in
 neral Wolfe, and in 176
 tain by the Treaty of P
 Utrecht, the provinces
 rmed out of it. It has
 eviously been a part of
 1766 By the British

southernmost point is Middle Island in Lake Erie at 41° 41' (approximately the
 latitude of Rome Italy)

Climate—The climate in the eastern and central portions of the Dominion prevents

perate zone are cultivated

GOVERNORS GENERAL OF CANADA SINCE 1867

| NAME | Date of Appointment | Date of Resignation or Death |
|------|---------------------|------------------------------|
| | June 7 1867 | July 1, 1867 |
| | Dec 29 1868 | Feb 2 1869 |
| | May 22 1872 | June 25, 1872 |
| | Oct 5 1878 | Nov 25 1878 |
| | Aug 13, 1882 | Oct. 23 1882 |
| | May 1, 1888 | June 11 1888 |
| | May 22 1893 | Oct. 12, 1893 |
| | July 30 1898 | Nov 22 1898 |
| | Sept 26 1904 | Dec 10 1904 |
| | Mar 21, 1911 | Oct. 23 1911 |
| | Aug 19, 1915 | Nov 21, 1915 |
| | Aug 2, 1921 | Aug 11 1921 |
| | Aug 5 1926 | Oct. 9 1926 |

CANADIAN TRADE COMMISSIONERS

Argentina Republic—E. L. McCall, B. Minto,
430 Buenos Aires (Territory includes Chile and
Uruguay)
Austral D. H. L. M. B. A. 126 C. P. O. Mel-
bourne
Belgium Jean F. A. 58 Boulevard de la Re-
Max F. A. 1211 N. 1 Jules Pommier

United States—Frederic Hudt, 44 Whitehall
Street New York City—Chicago R. O. O'Brien
and Willoughby Tower 8 South Michigan
Avenue Chicago
Canadian Commercial Agent—Australia—B.
Miller The Royal Exchange Building Sydney,
N. S. W.

THE LEGISLATURE

THE JUDICATURE

Assistant do, G. S. Worsley

| | |
|--|----------|
| <i>Supreme Court of Canada.</i> | |
| Chief Justice of Canada Rt. Hon. F. A. Anglin P.C. | \$15,000 |
| <i> Puisne Judges, Rt. Hon. Lyman Poole Duff, Hon. B. L. Newcombe, Hon. T. Rinfret, Hon. J. H. Lamont, Hon. F. Smith, each</i> | 12,000 |
| <i>President of the Court of Exchequer for the Dominion, Hon. A. H. McLean</i> | 10,000 |
| <i> Puisne Judge of the Exchequer Court, Hon. Louis A. Aulic LL.D.</i> | 9,000 |
| <i>Registrar of the Supreme Court, E. R. Cameron, K.C.</i> | 6,000 |
| <i>Registrar of the Exchequer Court, C. Morse, K.C., D.C.L.</i> | 5,000 |

DEFENCE

| Year ended March 31 | Consolidated Statement | |
|-------------------------------|------------------------|--------------------------------|
| | Revenue | Expenditure |
| | \$ | \$ |
| 1923 | 394,614,900 | 335,254,008 |
| 1925 | 346,834,479 | 328,891,901 |
| 1926 | 380,745,506 | 320,660,479 |
| 1927 | 398,695,776 | 319,448,173 |
| 1928 | 422,717,983 | 336,167,964 |
| 1929 | 455,463,874 | 350,952,934 |
| Consolidated Fund By Funds | | Year ended March 31 1930 |
| From Taxes— | | \$ |
| Customs | | 136,167,964 |
| | | \$ |
| | | 187,806,221 |

Expenditure 136,167,964 187,806,221

DEFENSE

| | |
|--|--|
| Royal Canadian Air Force | |
| The strength of the Royal Canadian Air Force permanent service was on Aug. 31, 1929, 158 officers and 1,631 men. | |
| Royal Canadian Mounted Police | |
| Headquarters Ottawa | |
| Hon. Commandant H. R. H. the Prince of Wales K.G. | |
| Colonel-in-Chief, Cretian Lt. Starnes | |

| Year ended March 31 | Revenue | Expenditure |
|------------------------|---------------|---------------|
| | \$ | \$ |
| 1924 | 2,819,610,470 | 2,417,183,008 |
| 1925 | 2,818,066,323 | 2,417,437,086 |
| 1926 | 2,768,779,184 | 2,389,737,099 |
| 1927 | 2,774,046,323 | 2,347,834,320 |
| 1928 | 2,718,610,374 | 2,296,250,233 |
| 1929 | 2,708,044,333 | 2,215,944,795 |

PRODUCTION AND INDUSTRY

Minerals and Forests

| | 1928. | 1928. | |
|-----------------|------------|------------------|------------|
| | acres | bush per acre | |
| Fall Wheat | 819 028 | 24 5 | |
| Spring Wheat | 23 300 124 | 23 5 | |
| All Wheat | 24 119 140 | 23 5 | |
| Oats | 13 118 516 | 34 4 | |
| Barley | 4 680 740 | 27 0 | |
| Pye | 837 585 | 17 4 | |
| Peas | 154 469 | 16 8 | |
| Beans | 70 206 | 16 7 | |
| Blackwheat | 502 729 | 21 7 | |
| Flax | 3-8 081 | 9 6 | 3 444 400 |
| Mixed Grain | 1 107 135 | 35 3 | 39 130 000 |
| Corn for Fodder | 139 194 | 37 7 | 5 241 000 |
| | | cwt | wt |
| Potatoes | 509 063 | 83 8 | 50 195 000 |
| Turnips, & | 202 447 | 215 5 | 43 623 000 |
| | | tons | tons |
| Short Ion. Wool | 10 320 863 | 2 60 | 16 515 000 |
| Hay and Clover | 1 614 305 | 2 49 | 4 021 000 |
| Alfalfa | 853 818 | 2 35 | 2 009 500 |
| Yellow Corn | 440 898 | 8 32 | 3 666 400 |
| SUGAR LOOTS | 51 204 | 8 44 | 212 000 |

EXTERNAL TRADE
(Twelve months ended March 31 1929)

| Countries | Imports for consumption | Exports of value in traded |
|--|----------------------------|----------------------------------|
| British Empire United Kingdom Oceania— | \$ 194,080 573 | \$ 429,730 485 |
| | 3,484 836 | 19 470 305 |
| | 22 771,239 | 27 357 763 |
| | 280 207 | 22 231 773 |
| | 10,366 548 | 21 735 436 |
| | 5 199 197 | 1 681 050 |
| | 4 700,295 | 5 206,083 |
| | 3 378 058 | 4 151 572 |
| | 2 077,839 | 4 656 219 |
| | 4 873 237 | 2 238 506 |
| | 2 543 352 | 11 160,510 |
| | 1,402 502 | 2 837,463 |
| | 157 398 532 | 516 004,012 |
| | \$ | \$ |
| | 7 427 568 | 14 493,201 |
| | 678 193 | 349 701 |
| | 12 014 338 | 27 302 384 |
| | 2 726 314 | 5 871 940 |
| | 379 453 | 2 403,414 |
| | 3 095,296 | 23 687 053 |
| | 2 6 | 124 773 |
| | | 4 441 053 |
| | | 2,703 825 |
| | | 5,081 275 |
| | | 139 874 |
| | | 2,64 973 |
| | | 83 650 |
| | | 2,122 120 |
| | | 16 131 188 |
| | | 475 025 |
| | | 311 374 |
| | | 2 720,224 |
| | 20 797 683 | 46 708 804 |
| | 370,708 | 15,250 771 |
| | 20 984 | 191 930 |
| | 251 497 | 304 791 |
| | | 215 957 |
| | | |
| | 4 260,325 | 23,224 |
| | 12 925,317 | 42 |
| | 2 359 | |
| | 22,708 | |
| | 2 170 225 | |
| | 22,666 | |

counters.
in the c
against
1928 the

Countries.

Imports for
consumptionExports of
Canadian
produceImports for
consumption

Foreign Countries

Netherlands

\$ 9 016 763

Neth. East Indies

704 663

Neth. Guinea

58 592

Neth. West Indies

173 319

Nicaragua

3 337

Norway

989 504

Panama

7,435 537

Paraguay

1,040,519

Persia

5 589

Peru

348 843

Poland and Dan.

4 447 853

Portugal

79 247

Azores and Madeira

678 030

Portuguese Africa

84 804

Rumania

32 364

Russia

236 882

Salvador

457 492

San Domingo

75 803

Siam

332 802

Spain

250 575

Canary Islands

5 704 255

Sweden

71 374

Switzerland

4 765 818

Syria

7 917,445

Turkey

478 229

United States

146 953

Alaska

500 167 599

Hawaii

411 836

Philippine Islands

37 262

Porto Rico

321 219

Uruguay

977 961

Venezuela

1 207 631

Yugo-Slavia

1 792 549

Total for Countries 1 008,280 560 827 582,655

Grand Total 1,265 679 091 1 363 586 672

Total Trade \$2 634 452 000

\$ 44,366,883

\$ 3 605 367

123 580

185 044

65 562

7,435 537

1,040,519

96,194

81,577

1 312,267

356,759

5 735 299

187,199

943 194

568,432

2 457 492

75 803

332 802

250 575

5 704 255

71 374

4 765 818

483 919

478 229

146 953

500 167 599

411 836

37 262

321 219

977 961

1 207 631

1 792 549

Totals \$1 265 679

COMMUNICATIONS

Passenger Traffic

\$55 632,762, and working expenses \$38 782,71
 In 1928 the passengers carried number
 40 592 792 (steam) and freight 218 652 969 ton
 (steam), 3 892 114 tons (electric).

| Name | Total Miles operated | Cost |
|---------------------------|----------------------|------|
| Canadian National Railway | | \$ |

Executive

| | |
|---|----------|
| Prime Minister and President of the Council & Attorney General, Hon L. A. Taschereau K.C. | \$14 000 |
| Minister of Lands and Forests, Hon Honoré Mercier, K.C. | 8 000 |
| Minister of Agriculture, Hon L. F. Perron K.C. | 8 000 |
| Minister of Public Works and Labour, Hon A. G. Gauthier K.C. | 8 000 |
| Minister of Colonization and Fisheries, Hon H. H. Laferté | 8 000 |
| Minister of Agriculture, Hon L. F. Perron K.C. | 8 000 |
| Minister of Colonization, Hon E. Moreau | |
| Minister of Fisheries, Hon J. H. Dillabon | |
| Minister of Lands and Forests, Hon Alfred Leduc | |
| Minister of Agriculture, Hon L. E. Guellet | |

The Legislature.

| | |
|---|---------|
| Speaker, Legislative Council, A. Turgeon K.C. | \$5 000 |
| Speaker, Legislative Assembly (vacant) | 5 000 |

The Judiciary

| | |
|--|------------|
| Chief Justice, Hon Eng. Lafontaine | \$20 000 |
| Justice, Hon Ed. Guérin C.E. | |
| Justice, A. G. Hall S. Leclercq | |
| Justice, E. E. Howard J. M. Tellier V. Allard | |
| Justice, Alphonse Bernier A. Rivard L. A. Cannon | each 9 000 |

Superior Court —

| | |
|--|--------------|
| Chief Justice, Hon J. F. X. Lemieux | |
| Justice, Hon L. D. Bouché | \$20 000 |
| Justice, Hon P. A. F. Greenshield | 9 000 |
| Justice, Hon J. Walsh, L. P. Demers | |
| Justice, P. H. Martineau W. Vezeir A. M. Teyler | |
| Justice, G. H. Archer C. Pouliot E. Letellier | |
| Justice, L. A. Panneton J. Archambault C. Leduc | |
| Justice, Pierre d'Anteuil L. J. Loranger | |
| Justice, A. E. Delorme L. Collette C. A. Duclos | |
| Justice, G. F. Gilmour A. Marchand A. Verigny | |
| Justice, E. F. Gauthier P. Cousineau J. Demers | |
| Justice, C. A. Wilson C. Neave Desautels Arthur | |
| Justice, Graham I. D. Beliveau A. Stein C. D. White | |
| Justice, H. A. Fortier L. J. E. Boyer, W. L. Bond W. Patterson | each \$9 000 |

Lower Court —

| | |
|--|--|
| Justice, Hon M. Ethier J. B. Archambault, J. P. Péllet | |
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| Justice, Hon M. Ethier J. B. Archambault, J. P. Péllet | |
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| Justice, Hon M. Ethier J. B. Archambault, J. P. Péllet | |
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| Justice, Hon M. Ethier J. B. Archambault, J. P. Péllet | |
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| Justice, Hon M. Ethier J. B. Archambault, J. P. Péllet | |
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| Justice, Hon M. Ethier J. B. Archambault, J. P. Péllet | |
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|--|--|
| Justice, Hon M. Ethier J. B. Archambault, J. P. Péllet | |
|--|--|

the province
importance every year
have recently been built, and during 1927 a
production reached 1,749,965 tons valued at
£60,834,169. The province produces more than
half of the total output of the Dominion.
In 1927, 1,344,473 tons of paper were manu-
factured, valued at \$91,908,475 (mainly news-
print). Unimproved lands may be bought from
the Government at 60 cents per acre and
the money paid in five instalments.

There were in 1927

There were in 1927

There were in 1927

NOVA SCOTIA
Area and Population.—NOVA SCOTIA is a
peninsula between 43° 25'–47° N lat. and 59° 40'
–60° 20' W long. and is connected with the
mainland by a narrow isthmus about thirteen
miles (the narrowest part is only four miles
wide) at the town of Digby. The population in
1926 was 31,494 (1921, 35,000).
Government.—The Government is administered
by a Lieutenant Governor and a Legislative Assembly of 45
members.
Lieutenant Governor, His Honour Hon. James
Tory, LL.D.

Executive

Premier and Financial Secretary of the Province
 Hon. E. N. Rhodes P.C. \$
 Minister of Agriculture Hon. W. I. Hall K.C.
 Minister of Public Works and Municipalities
 Hon. C. N. Harrison K.C.
 Minister of Education Hon. J. C. Little
 Minister of Lands and Forests Hon. J. E. N.
 Minister of Finance Hon. J. P.
 Minister of the Interior Hon. J. P.

CAPE BRETON ISLAND

Judicial

Chief Justice of the Province
 Hon. J. P.

Judicial

Chief Justice of the Province \$10,000
 Judge of the Court of Appeal \$9,000

NEW BRUNSWICK

Chief Justice of the Province—NEW BRUNSWICK

\$9,000

\$3,000

3,000

3,500

3,000

3,000

3,000

\$1

\$10,000

\$19,000

\$10,000

\$5,000

\$1,000

\$500

1927

Adm. Exp.

Adm. Exp.

Adm. Exp.

... .. and the expenditures \$12,435,110.

MANITOBA.

Area and Population.—Manitoba originally

BRITISH COLUMBIA

British Columbia
255,855 square miles

\$2,000.

Lieut. Governor, Hon. James Duncanson
Minister

\$9,000

Executive

Premier President of the Council and Provincial Treasurer Hon. John Bracken
Miner, Natural Resources, Provincial Lands Commissioner, Provincial Secretary and Minister of Telegraphs and Telegraphs Hon. D. G. W. McKenzie
Public Works Hon. W. L. Chisholm
Minister of Municipal Affairs, Hon. D. L. McLeod
Minister of Agriculture and Immigration and Railway Commissioner Hon. A. Macdonald
Education Hon. R. A. Hoey
Attorney General Hon. W. J. Major, K.C.
Minister of Public Welfare Hon. W. L. Montgomery, M.P.

6,000
6,000
6,000
6,000

The Judiciary

Court of Appeal—
Chief Justice, Hon. W. F. Pendergast \$10,000
Associate Judges, Hon. A. P. Fullerton
J. E. Pendergast, R. M. Pennington
C. E. W. H. Leeman each 9,000
Kearney Bench—
Chief Justice, Hon. D. A. Macdonald 10,000
Associate Judges, Hon. A. I. Galt, A. A. Dyar, J. L. Alaman, J. T. Kilgour,
W. J. Donovan each 9,000
Finance—The revenues of the provincial government in the year ending April 30, 1920 were

Private Sec., Capt. J. Bracken

Executive

Minister of Mines and of Labour,
W. A. McKenzie
Minister of Public Works, Hon. A. Macdonald
Minister of Education, Hon. J. Macdonald
Minister of the Council, Hon. E. W. Bracken
Without Portfolio Hon. R. L. Macdonald, K.C.
Speaker, Legislative Assembly, Hon. J. W. Bracken

\$2,000

7,500

7,500

7,500

7,500

7,500

7,500

7,500

7,500

7,500

7,500

7,500

7,500

The Judiciary

Court of Appeal—Chief Justice Hon. J. A. Macdonald
Associate Judges Hon. A. Martin, W. A. Halliburton, Albert E. McPherson, M.A.
Macdonald
Supreme Court—Chief Justice Hon. A. Macdonald
Associate Judges Hon. D. Murphy, J. A. Macdonald, W. A. Halliburton, M.A.
Macdonald and A. I. Fisher

\$10,000

9,000

9,000

9,000

9,000

9,000

9,000

9,000

JUDICATURE

COMMUNICATIONS.

Railways.—There were 905 miles of railway open in 1926 and 47 miles of private line. D.

Ports and Harbours.

1st class
2nd class
3rd class
4th class
5th class
6th class
7th class
8th class
9th class
10th class
11th class
12th class
13th class
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91st class
92nd class
93rd class
94th class
95th class
96th class
97th class
98th class
99th class
100th class

| Year | Revenue | Expenditure | Profit |
|---------|-----------|-------------|--------|
| | \$ | \$ | \$ |
| 1913-14 | 3,920,176 | 3,920,176 | 304 |
| 1915-16 | 9,754,551 | 9,865,167 | 670 |
| 1916-17 | 8,912,435 | 10,533,408 | 720 |
| 1917-18 | 9,466,005 | 10,740,000 | |

EXTRN

| Year | Imports | Exports | Balance |
|---------|------------|------------|------------|
| | \$ | \$ | \$ |
| 1913-14 | 15,193,726 | 15,134,543 | 30,328,269 |
| 1915-16 | 27,554,305 | 27,563,213 | 55,115,518 |
| 1916-17 | 25,823,671 | 30,839,859 | 56,653,730 |

LABRADOR.

Labrador, a dependency of New Zealand, forms the most easterly part of the North Island and extends from the 12th to the 17th degree of latitude and from the 174th to the 179th degree of longitude.

The Commonwealth of Australia.

AREA AND POPULATION

| States and Capitals. | Area (English Miles). | Population * | | | |
|--------------------------------------|-----------------------------|-------------------|-------------------|-----------------------|--------------------------------|
| | | Census of 1911 | Census of 1921 | Increase 1911-1921 | Estimated March 31, 1929 |
| New South Wales (Sydney) | 309,432 | 1,645,734 | 2,100,371 | 453,637 | 2,457,127 |
| Victoria (Melbourne) | 87,884 | 1,315,351 | 1,831,280 | 215,729 | 1,766,378 |
| Queensland (Brisbane) | 670,309 | 605,813 | 725,972 | 120,159 | 919,251 |
| South Australia (Adelaide) | 380,070 | 408,428 | 495,160 | 86,602 | 579,665 |
| Western Australia (Perth) | 973,920 | 282,114 | 332,732 | 50,618 | 408,480 |
| Tasmania (Hobart) | 26,215 | 192,211 | 213,780 | 22,569 | 213,481 |
| Total 1911 | | | | | |
| North Australia (Darwin) | 287,227 | 3,310 | 3,867 | 557 | 4,024 |
| Central Australia (Alice Springs) | 236,393 | | | | |
| Federal Capital Territory (Canberra) | 940 | 1,714 | 2,572 | 858 | 8,358 |
| Total | 2,974,581 | 4,125,005 | 5,435,734 | 980,729 | 6,356,770 |

Increase of the People

| Year | Increase. | | | Decrease. | | | Migrations |
|------|-----------|---------|---------|-----------|--------|---------|------------|
| | Births | Deaths | Total | Deaths | Deaths | Total | |
| 1923 | 135,222 | 92,859 | 228,081 | 56,236 | 55,319 | 111,555 | 44,541 |
| 1924 | 134,927 | 103,667 | 238,594 | 54,980 | 59,918 | 124,898 | 45,869 |
| 1925 | 135,792 | 100,075 | 235,867 | 54,568 | 62,718 | 127,286 | 46,599 |
| 1926 | 133,162 | 107,924 | 241,086 | 56,952 | 65,704 | 122,656 | 47,865 |
| 1927 | 133,698 | 117,423 | 251,121 | 58,222 | 68,499 | 126,721 | 49,033 |
| 1928 | 134,078 | 99,792 | 233,870 | 59,378 | 72,560 | 131,938 | 48,592 |

Inter-censal Increases, 1871-1921

| Year of Census. | Result of Census. | | | Decrease in reason | Net Immigration during Period. | |
|-----------------|-------------------|-----------|-----------|--------------------|--------------------------------|---------|
| | Males. | Females | Total | | | |
| 1871 | 920,522 | 751,528 | 1,663,039 | 504,224 | 1861-1871 | 166,565 |
| 1881 | 1,214,913 | 1,035,281 | 2,250,194 | 552,155 | 1871-1881 | 291,804 |
| 1891 | 1,704,039 | 1,470,353 | 3,174,392 | 924,198 | 1881-1891 | 382,741 |
| 1901 | 2,327,928 | 1,795,873 | 4,123,801 | 599,409 | 1891-1901 | 24,879 |
| 1911 | 2,313,035 | 2,121,970 | 4,435,005 | 681,204 | 1901-1911 | 40,485 |
| 1921 | 2,762,870 | 2,672,864 | 5,435,734 | 980,729 | 1911-1921 | 207,571 |

Races and Religions

| Races | 1911 | 1921 | Religion | 1911 | 1921 |
|-------|------|------|------------------------|-----------|-----------|
| " | " | " | Church of England | 1,780,443 | 2,372,995 |
| " | " | " | Presbyterians | 453,126 | 636,074 |
| " | " | " | Methodists | 347,806 | 632,609 |
| " | " | " | Other Protestants | 458,379 | 637 |
| " | " | " | Roman Catholics & Jews | 921,425 | 112 |
| " | " | " | " | 27,287 | " |

* Exclusive of full blood Australian Aborigines, who are estimated at 60,000

WHITE

BLACK, 1930

Powers as
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 The right of
 urely under
 law of the

GOVERNOR-GENERAL

Gover-General His Excellency the Rt
Hon Lord Blandford, P.C. G.C.M.G.
D.S.O. (1925)

Deputy Secretary His Hon. J. Nichol
Lt Col. Lieut. D. W. Nichol
Capt. J. M. Nichol

Executive Council

(1925-1926)

Minister of External
Affairs and Minister of Education
Hon. Henry Scullin

Minister of Finance Hon. Edward George
Thorneycroft

Minister of Internal Affairs Hon. Senator
John Joseph Davis

Minister of Home Affairs Hon. Frank
Austin

Minister of Defence Hon. Frank Brennan

Minister of Trade and Customs Hon. Joseph
Lowe

Minister of Defence Hon. A. E. Forster

Minister of Trade and Customs Hon.
James Edward Fenton

Minister of Home and Territories Hon.
Arthur Bligh

Minister of Markets and Fisheries Hon.
Arthur Bligh

Minister of Home and Territories Hon.
Arthur Bligh

Minister of Home and Territories Hon.
Arthur Bligh

Minister of Home and Territories Hon.
Arthur Bligh

Minister of Home and Territories Hon.
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Minister of Home and Territories Hon.
Arthur Bligh

Minister of Home and Territories Hon.
Arthur Bligh

Minister of Home and Territories Hon.
Arthur Bligh

President of the Senate Hon. Walter Kibben
Speaker House of Representatives, Hon.
John Oswald Martin

THE JUDICATURE

DEFENCE.

Navy

The Australian Fleet consists of the Cruisers
Australia Canberra, Brisbane Adelaide,

Army

Air

THE LEGISLATURE

FEDERAL FINANCE

| Years | Revenue | Expenditure | Payments to States |
|---------|------------|-------------|--------------------|
| | £ | £ | £ |
| 1923-24 | 66 017 803 | 58 614 331 | 7 324 538 |
| 1924-25 | 68 854 809 | 59 301 141 | 7 535 891 |
| 1925-26 | 72 285 606 | 66 157 712 | 7 955 727 |
| 1926-27 | 78 168 235 | 67 369 726 | 8 265 912 |
| 1927-28 | 75 670,222 | 70 215 779 | 9 081 186 |

The Customs and Excise revenue is collected by the Commonwealth and partly repaid to the States at the rate of 25% per head of the population

Star 227 815 of lands and buildings £110,026,392
of materials used £235 617 260 value added by
manufacture £167 402 772 and total value of
final output £416 994 009

EXTERNAL TRADE

Total Imports 1928-29 - £143 628 933
Total Exports 1927-28 - £144 769 175

| Country | Imports from 1927-28 | Exports to 1927-28 |
|----------------|----------------------|--------------------|
| United Kingdom | £63 008,037 | £54 776,714 |
| Canada | 3 278 269 | 258 907 |
| Ceylon | 1 931 770 | 2 588 903 |
| " | " | 2 030 680 |
| " | " | 3 654 635 |
| " | " | 1 847 194 |
| " | " | 9 320,526 |
| " | " | 370 452 |
| " | " | 3,046 890 |
| " | " | 15,166 747 |
| " | " | 12,017 313 |
| " | " | 5,138,034 |
| " | " | 12,571 282 |
| " | " | 422 466 |
| " | " | 1 945 734 |
| " | " | 2 204 469 |
| " | " | 430 266 |
| " | " | 12 512 |
| " | " | 8 044 813 |

1927-28

1 144

3 474

2 961

1 104

1 048

1,349

9 7

711

8,594

5 963

2,500

1 429

1 202

3 640

1,676

6 087

1,076

936

7 127

2 737

1 957

1 215

7 160

4 704

1,553

3 771

2,184

1 220

3,086

2 307

4,810

1 113

1,097

901

1,011

53,000

147 945

| Exports (£ Sterling not omitted) | 1926-27 | 1927-28 |
|-------------------------------------|---------|---------|
| Butter | 5,465 | 6,906 |
| Meat | 5,205 | 4,816 |
| Milk and Cream .. | 1,081 | 1,189 |
| Fruit (dried) | 1,649 | 1,602 |
| Fruit (fresh) | 806 | 1,840 |
| Wheat | 20,785 | 14,630 |
| Flour | 6,254 | 5,229 |
| Hides and skins .. | 8,558 | 9,904 |
| Wool | 60,054 | 66,097 |
| Wool | 1,417 | 1,081 |
| Concentrates | 980 | 1,600 |

Source: The Statistical Bureau, London.

States of the Commonwealth

| | | | |
|------|--------|--------|--------|
| 1922 | 55.214 | 19 178 | 17 583 |
| 1923 | 54.114 | 21 051 | 17 507 |
| 1924 | 53.670 | 20 821 | 18 077 |
| 1925 | 54.613 | 20 823 | 18,522 |
| 1926 | 53.126 | 21,158 | 19 219 |
| 1927 | 53.858 | 22 770 | 20 052 |
| 1928 | 54.800 | 22 604 | 20 076 |

Vital Statistics Annual rate per 1,000 of
population: 1928 — Live b. 22.59 Death 9.35
Marriages 8.27 Deaths under 1 year per 1,000
births, 54.9.

Religion

All religions are free. There is no State Church. About 11 per cent of the people are Protestants. England is now consist of 29 per cent Catholic and 65 per cent Protestant.

FIG. 1. GRAPHY

GOVERNOR

G-vernors of New South Wales His Ex
cellency Admiral Sir Dudley Rawson
Strait rd to Chair h C O VVO
10th 1864 (1864)

Official Secret - II *Ludke CM*

At least one

John and George H. N. Sir William
Lortus and John H. N. Sir William
Lortus

RELATIVE CLAUSE.

President H. L. the Governor

Th. M. M. M. M.

The 1988 Paleontological Event

after, Lt. Capt. Frank
L. Haffey, USA.

| | | |
|---------------|---------------|-----------------------------|
| $\frac{M}{m}$ | $\frac{f}{F}$ | $\frac{\text{altitude}}{r}$ |
|---------------|---------------|-----------------------------|

1100 E. W. 15th Ave. Mila

| | | | | | | | | |
|---|---|---|---|---|--------|-------|-----|-------|
| | G | H | R | N | P | S | Avg | Std S |
| I | I | t | | i | Budget | floss | | |

vessels of 9,212,095 net tonnage. The docks accommodate at Sydney includes four large grain docks, five floating docks and seven patent slips. At Newcastle there are five patent slips.

Motor Vehicles—At June 30, 1929 there were

wheat was 49,182,600 bushels of grain and 398,790 tons of hay.

Land Alienation—The total extent of land alienated and in process of alienation on June 30, 1928 was 66,441,822 acres while the area of

TOWNS.

| | | | |
|------|--------|--------|--------|
| 1926 | 35 352 | 10,335 | 13 495 |
| 1927 | 35 078 | 10,773 | 13 608 |

Approximate time in transmission of
from London to Sydney, as data.

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a paper
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related to
the PM

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red

III—SOUTH AUSTRALIA.

Lieut. Governor, Hon. Sir George John
Robert Murray, K.C.M.G., LL.M., born
1863 (1926)
Full Maturity (April 4 1927)

Increase of the People

| Year | Births | Deaths |
|------|--------|--------|
| 1924 | 21,592 | 4,870 |
| 1925 | 21,457 | 4,979 |
| 1926 | 21,483 | 4,877 |
| 1927 | 21,492 | 5,128 |
| 1928 | 21,408 | 5,147 |

Birth rate 1925 death rate
rate 75.8 per 1,000 of population
mortality 47.5 per 1,000 births
lowest rates in the world

Religions

Religion is free and receives no State aid. At
the Census 1921 the persons belonging to the
principal religious denominations were as follows:

Secretary
Commissioner of Public Works and Minister
Education, Hon. Malcolm McIntosh.
Director of Agriculture, Hon. Sir John
McIntosh

Secretary and Trade Commissioner,
R. M. K. Lewis

THE LEGISLATURE

House of Representatives

House of Representatives

House of Representatives

House of Representatives

House of Representatives

House of Representatives

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House of Representatives

Climate—The mean annual temperature at
the winter temperature (July)

Governor of South Australia His Excellency
Lieut. Gen. Hon. Sir Alexander Gore
Arkwright, K.C.M.G., born 1840 (1926)
Lieut. Gen. Hon. Sir Alexander Gore
Arkwright, K.C.M.G., born 1840 (1926)

at 9 country centres
schools for apprentices. The public library
museums, art gallery and local institutes are
supported or assisted by the State

FINANCE.

| Year | Revenue | Expenditure | Balance |
|------|---------|-------------|---------|
| | £ | £ | £ |

fruits (fresh and dried) and minerals from
Lake Kinneret.

Communications.—There are 3,636 miles of
railway in South Australia 140 miles of electric
trams 46,000 miles of roads and several good

Transit of mails from London to Brisbane
have approximate 32 days

—TASMANIA

Hon H S Baker
Hon J J Stirling
Hon F Edward Hobbs
Charles W Gant
Hon A Wardlaw
250

1925 — 28 22 20 05 04 4 7 07
C. E. & Co. 2500 Henry St. 1 person 600

PHYSIOGRAPHY

The surface of the country is generally

1908
Clark
H. S. H. G. H. A. J.
2500
500
900
700
775

FINANCE

| Year | Revenue | Expenditure | Profit |
|---------|-----------|-------------|-------------|
| 1924-25 | £2,62,013 | £2,675,618 | £23,894,415 |
| 1925-26 | 2,76,432 | 2,698,261 | 24,215,389 |
| 1926-27 | 3,04,020 | 2,855,077 | 24,703,068 |
| 1927-28 | 2,96,687 | 2,867,005 | 24,872,785 |
| 1928-29 | 2,76,434 | 2,855,977 | 23,325,107 |

Profit for Dec 31, 1927, the balance of issue and total profit £2,645,239 the profit for bank deposits were £5,522,705

PRODUCTION AND INDUSTRY

Natural Increase of the People.

| Year | Births | Deaths | Marriages |
|------|--------|--------|-----------|
| 1923 | 7,854 | 2,930 | 2,276 |
| 1924 | 8,301 | 3,053 | 2,296 |
| 1925 | 8,185 | 3,215 | 2,246 |
| 1926 | 8,301 | 3,350 | 2,244 |
| 1927 | 8,481 | 3,283 | 2,207 |
| 1928 | 8,704 | 3,440 | 2,379 |

Religions.

There is no State aid to religions. At the Census of 1925 there were 232,085 persons belonging to the Church of England 52,480 Roman Catholics, 29,216 Methodists, and 28,277 Presbyterians.

Physical Features.—Large areas of the State for some hundreds of miles inland, are hilly and even mountainous, although the altitude so far as ascertained rises nowhere above that of Mount Bruce (4,024 ft.) in the west of Mount Bruce. The interior slope to the west and of the interior slope to the west have a mean into which Swan Murchison, and the Drysdale. The greater part of the area is described as a plateau of from 1,000 to 2,000 feet of which the slope of the plateau is in the average of the area of the plateau is more than 100 feet per square mile. The plateau has been provided by the State.

The State was settled by the British. It was granted a partially elective Council in 1890. In 1892 the government was granted the Administrative Council. In 1894 the Governor and Legislative Council. The present constitution rests upon an Act of 1894. The Executive is vested in a Governor appointed by the British. The Executive is assisted by a Council of responsible Ministers.

GOVERNMENT.
Governor of Western Australia: His Excellency Col. Sir William Robert Campbell, C.M.G., born 1850.
Premier: Mr. J. A. C. Davidson, M.L.A., born 1854.
Deputy Premier: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Education: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Lands: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Public Works: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Agriculture: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Health: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Justice: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Finance: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Labour: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Social Services: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Housing: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Transport: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Water: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Forestry: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Fisheries: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Mines: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Industries: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Commerce: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Trade: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Customs: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Excise: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Taxation: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Revenue: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Finance: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Labour: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Social Services: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Housing: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Transport: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Water: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Forestry: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Fisheries: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Mines: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Industries: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Commerce: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Trade: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Customs: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Excise: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Taxation: Mr. J. A. C. Davidson, M.L.A., born 1854.
Minister of Revenue: Mr. J. A. C. Davidson, M.L.A., born 1854.

VI.—WESTERN AUSTRALIA.

It extends all that part of the coast of the State of Western Australia, the most westerly point being in the 32° 10' S. and 115° 30' E. The total length is 1,300 miles and the total area 975,900 square miles.

POPULATION.—At the Census of April 4, 1928 the population was 232,085 (122,278 males and 109,807 females). In 1926 the total was estimated at 205,872 (100,209 males, 105,663 females).

Walter Munnle M.L.A. 1,500
 Minister for Goldfields, Agriculture
 Water Supplies and State Trading
 Concerns Hon. James Cunningham
 M.L.A.
 Minister for Agriculture and Police
 Hon. Harold Millington M.L.A.
 Minister without Portfolio Hon. William
 Henry Hiltson M.L.C.
 AGENT-GENERAL IN LONDON
 4 Central in London Hon. William
 C. Angus Office Raroy House 215 216
 Strand, W.C. 2
 Secretary C. E. Rushton

PRODUCTION AND INDUSTRY
 Crops and Live Stock—Of the total are

THE REGULATORS

June 1914 Hon. J. A. A. Hiltson
 and T. P. Draper C.B.E. (in vacancy),
 each

EDUCATION

TOWNS
 CITY Perth Port of Call of Western

FINANCE

Revenue and Expenditure and gross public
 Debt for 5 years ended June 30

| Year | Revenue | Expenditure | Debt |
|------|-----------|-------------|------------|
| | £ | £ | £ |
| 1915 | 8,741,445 | 8,439,854 | 64,493,162 |
| 1916 | 8,808,165 | 8,907,302 | 70,010,900 |
| 1917 | 9,750,823 | 9,728,563 | 70,606,175 |
| 1918 | 9,807,949 | 9,834,413 | 76,427,764 |
| 1919 | 9,947,950 | 10,023,819 | 69,255,449 |

Transmission of mails from London to
 approx. 27 days

THE DOMINION OF NEW ZEALAND

(By the Hon J. G. COATES, M.C., *Prime Minister.*)

THE Dominion of New Zealand farthest in point of distance from the heart of

I pupils are educated in State secular sch is nominally the highest & complete li

The Dominion of New Zealand.

AREA AND POPULATION

| Islands | Area (to 31 Dec.) | Population 1911 | Population | |
|-------------------------|----------------------|--------------------|-------------------|-------------------|
| | | | Census of 1921 | Census of 1926 |
| North Island | 44 13 | 563 733 | 741 255 | 831,813 |
| South Island | 8 14 | 444 120 | 477 011 | 511 012 |
| Stewart Island | 60 | 35 | 397 | 446 |
| Chatham Islands | 3 2 | 258 | 210 | 268 |
| Auckland Islands | 25 | | | |
| Campbell Island | 44 | | | |
| Antipodes Island | 13 | | | |
| Douglas Island | 1 | | | |
| Snare Island | 1 | | | |
| Howland Island | 1 | 4 | | |
| Cook Island | 10 | | | |
| Other Islands | 130 | 1 008 | 1 209 | 1 38 |
| Tokelau Islands | 4 | | | 1 033 |
| Western Samoa (Natalia) | 1 050 | | 3 012 | 40 229 |
| Other Islands | | 49 844 | 52 75 | 63 600 |
| Total | 104 916 | 1 070 914 | 1 320 375 | 1 461 278 |

Estimated Population June 3, 1929: New Zealand 1,404,320; Maori 65,937; Cook and other Pacific Islands 14,451; Tokelau Islands 1,033; Western Samoa 43,657—Total 1,529,397.

Increase of the People

| Year | Increase | | | Decrease | | | Marriages |
|------|----------|------------|--------|----------|-----------|--------|-----------|
| | Births | Immigrants | Total | Deaths | Emigrants | Total | |
| 1925 | 25 153 | 47 846 | 69 999 | 11 026 | 29 273 | 40 298 | 20 419 |
| 1926 | 28 473 | 45 685 | 74 158 | 11 819 | 33 815 | 45 634 | 20,680 |
| 1927 | 27 88 | 38 676 | 66 557 | 11 623 | 36 248 | 47 871 | 20 478 |
| 1928 | 27 100 | 35 478 | 62 578 | 11 851 | 35 035 | 46 886 | 20 537 |

Inter-annual Increases (Exclusive of A or at 1925)

| Year | Increase of 1925 | | | Quinquennial Increase | Immigrants in 1925 |
|------|------------------|---------|-----------|-----------------------|--------------------|
| | Males | Females | Total | | |
| 1891 | 332 877 | 203 781 | 646 658 | 48 176 | 73 816 |
| 1896 | 371,415 | 331 945 | 703 360 | 70 702 | 205,787 |
| 1901 | 405 994 | 366 727 | 772 721 | 64,359 | 91 263 |
| 1906 | 471,008 | 427 570 | 898,578 | 115 819 | 151 579 |
| 1911 | 531 910 | 476 358 | 1,008 268 | 1 9 600 | 204 730 |
| 1916 | 551 715 | 547 674 | 1,099 389 | 90 981 | 293 834 |
| 1921 | 643 243 | 585 670 | 1 228 913 | 110 464 | 314 247 |
| 1926 | 686 384 | 658 085 | 1 344 469 | 129 877 | 295 264 |

* See also population of the Dominion of New Zealand, 1926.

Races and Religions

| Race | 1911 | | Religion | 1926 | |
|-------------|-----------|-----------|--------------------|-------|------|
| | 1911 | 1926 | | 1911 | 1926 |
| Europeans | 1 091 044 | 1 218 167 | Anglican (English) | 41 75 | |
| Maori | 45 247 | 54,061 | Presbyterian | 23 71 | |
| Half-caste | 6 350 | 11 609 | Other | 9 64 | |
| Chinese | 2 147 | 3,274 | Other | 13 79 | |
| Other races | 1,057 | 2,918 | | | |

in turpentine and mangle. Amongst
auriferous pine (found
in the islands),
and for its resin
it is used for the

1919 numbered
25,557, and
of the South
ed sheep of the

FINANCE

| Year | Revenue | Expenditure | Balance |
|------|-------------|-------------|------------|
| 1924 | £27,960,370 | £26,148,005 | £1,812,365 |
| 1925 | 28,643,000 | 27,199,000 | 1,444,000 |
| 1926 | 24,745,782 | 23,570,083 | 1,175,699 |
| 1927 | 24,943,107 | 24,355,965 | 587,142 |
| 1928 | 25,281,980 | 24,944,905 | 337,075 |
| 1929 | 23,599,676 | 24,176,028 | (576,352) |

of 1928 there were 213

£6,374,043

Post-office and private savings banks had, at
the close of the year 1928-29, 1,000,481 depositors
having £57,122,336 to their credit.

EDUCATION

particular
1928
ers
302
405

Islands &
Canterbury Plain.

Manufactures—Statistics of factory produc-
tion show (1927-28) 3,166 factories in operation,
employing 81,756 hands. Value of output for
year, £87,732,003.

Minerals—Coal mining is one of the largest
industries, the output in 1927 being 2,660,740
tons, the approximate total output to the end
of 1927 being 85,326,081 tons. Gold mining
alluvial and quartz, is an important in-
dustry in many districts, and rich iron ore in
the form of iron sand occurs in great abundance
at the mouth of the Waikato River, and in the form of brown hematite
at the mouth of the Waikato River, near Nelson.

EXTERNAL TRADE

| Year | Imports | Exports | Total |
|------|-------------|-------------|--------------|
| 1924 | £48,527,603 | £52,674,722 | £101,202,325 |
| 1925 | 52,456,407 | 55,264,272 | 107,720,679 |
| 1926 | 49,889,353 | 45,275,575 | 95,164,928 |
| 1927 | 44,762,945 | 48,499,354 | 93,262,300 |
| 1928 | 44,866,406 | 52,188,482 | 97,054,888 |

Principal Imports, 1928—

| | |
|-----------------------|-----------|
| Dried) | £87,257 |
| " " | 87,257 |
| " " | 1,000,000 |
| " " | 2,500,000 |
| " " | 4,150,000 |
| inery and Apparatus | 2,152,227 |
| " " | 2,152,227 |
| parts thereof | 3,954,173 |
| d Metal Manufactures | 940,587 |
| " " | 3,954,173 |
| Books | 353,573 |
| " " | 1,304,650 |
| " " | 5,333,244 |
| " and Manufactures | 950,306 |
| " (crude and refined) | 2,565,000 |
| manufactures thereof | 1,122,225 |

ports 1928—

| | |
|-----|-------------|
| " " | £16,679,028 |
| " " | 11,300,000 |
| " " | 10,300,000 |
| " " | 4,423,951 |
| " " | 2,443,028 |

and Pelts

At trade of 1928 was shared by the

principal countries as under—

| Country | Imports from | Exports to |
|----------------|--------------|-------------|
| United Kingdom | £22,537,250 | £10,510,075 |
| " " | 2,866,211 | 2,942,613 |
| " " | 7,928,764 | 4,200,329 |
| " " | 584,184 | 1,787,700 |
| " " | 3,237,730 | 657,925 |
| " " | 358,233 | 1,800,897 |
| " " | 409,344 | 303,350 |
| " " | 1,615,125 | 1,200,071 |
| " " | 524,504 | 13,978 |
| " " | 996,003 | |

outs grown is sufficient for the
requirements. The area under wheat in 1928-29
was 255,312 acres, giving a yield of 2,832,864
bushels of wheat per acre of 255,312 acres of wheat.

AREA AND POPULATION

| Provinces | Area (Engl) sq mi | Population of 1921 | Population of 1926 | Population of 1931 |
|-------------------------|-------------------------|--------------------|--------------------|--------------------|
| Cape of Good Hope | 276 | | | |
| Natal | 35 | | | |
| Transvaal | 110 460 | 541,485 | 2 087,636 | 608 022 |
| Orange Free State | 49 647 | 188 546 | 628,877 | 202 982 |
| Union of South Africa | 21 917 | 1 519 488 | 6,928 580 | 1,676,660 |
| South West Fr test rate | 312 124 | 19 714 | 227,739 | 24 115 |

Of the European population of the Union (1926), 856 918 were males and 819 742 were females. The increase for the Union (1911-21) was 15.99 per cent. For the Provinces it was as follows—Cape 8.49 per cent. Natal 19.71 per cent, Transvaal 23.81 per cent. Orange Free State 19.06 per cent.

The increase in the European population of the Union (1921-26) was 20.34 per cent. For the Provinces it was as follows—Cape 8.53 per cent. Natal, 16.13 per cent. Transvaal 11.99 per cent.

| Year | Birth | Deaths | Immigrants | Emigrants | Net Increase |
|------|--------|--------|------------|-----------|--------------|
| 1923 | 42 181 | 15 438 | 11 700 | 1973 | 26 700 |
| 1924 | 42 346 | 15 503 | 12 742 | 1921 | 26 79 |
| 1925 | 43 411 | 16 371 | 14 002 | 1925 | 26 51 |
| 1926 | 43 872 | 16 080 | 14 908 | 1926 | 26 16 |
| 1927 | 44 347 | 16 627 | 15 622 | 1927 | 25 97 |

h rise in steep
Taher Mountain
at the base from

HISTORICAL SKETCH.

The Cape of Good Hope was discovered in 1486 by Bartholomew Diaz, the commander of the many expeditions sent out by successive kings of Portugal to discover a sea route to India. Diaz merely doubled the Cape and returned home. Eleven years later, in 1497, Vasco da Gama sailed round the Cape to India, and returned home. The Cape was subsequently discovered by the Dutch, and was named after the Dutch king, William of Orange. The Cape was the first of the four great harbours of the world, and was the only one ready to receive the British Crown. The Cape was the first of the four great harbours of the world, and was the only one ready to receive the British Crown.

settled in the 17th century. In 1652, the first Dutch settlement was founded at the Cape. The Cape was the first of the four great harbours of the world, and was the only one ready to receive the British Crown. The Cape was the first of the four great harbours of the world, and was the only one ready to receive the British Crown.

GOVERNMENT

PARLIAMENTARY

Mr. J. M. M. M.
 Minister of Defence (Col. the Hon. J. M. M.) £ 500
 Cresswell D. S. O.
 Minister of Mines and
 A. P. J. E. M.
 Minister of Finance Hon.
 Minister of Justice Hon.
 Minister of Lands and
 Public Works Hon. H. W.
 Minister of Agriculture
 J. C. G. Kemp
 Minister of Education
 C. W. M. M.
 Minister of Labour Hon. F.
 Minister of Labour Hon.

HIGH COMMISSION
 High Commissioner for
 Water, South Africa Hon.
 W. C. S.
 Secretary J. G. Muller

Trade Commissioner for
 Africa Col. Beresford

THE LEGISL.

The Senate consists of 40 members. For ten

Prime of Secretaries

£ 300
 £ 950
 £ 400
 £ 670

£ 1,000

£ 750

£ 500

Hon.

£ 250

Hon.

£ 200

Hon.

£ 250

Hon.

£ 250

Hon.

£ 250

Hon.

£ 250

Natal Provincial Division

Chief President Hon. Sir J. C. De Villiers Kt. £2,500
Deputy President Hon. T. F. Carter
 Hon. F. C. Satham D.C.O. Hon. E. J. Matthews C.M.G. each £250

Orange Free State Provincial Division

Chief President Hon. Sir John F. de la Rive Kt. £2,500
Deputy President Hon. A. J. M. de la Rive
 Hon. C. J. de la Rive each £250
Chief Justice Hon. Sir John F. de la Rive Kt. £2,500
Deputy Chief Justice Hon. A. J. M. de la Rive
 Hon. C. J. de la Rive each £250

Natal High Court

Chief Justice Hon. Sir John F. de la Rive Kt. £2,500
Deputy Chief Justice Hon. A. J. M. de la Rive
 Hon. C. J. de la Rive each £250

DEFENCE

The South Africa Defence Act 1912 became law on June 24, 1912. This Act was amended by the South Africa Defence Act 1913 which set of provisions for the establishment of a defence force consisting of—

1. The South African Land Force which consists of—

- (i) The South African Staff Corps
- (ii) The South African Infantry
- (iii) The South African Cavalry
- (iv) The South African Field Artillery
- (v) The South African Permanent Garrison Artillery

The South African Naval Service includes the officers and men of the South African Division of the Royal Naval Volunteer Reserve engaged in whole-time service

2. The Coast Garrison Force which consists of—

- (i) The South African Coast Artillery
- (ii) The South African Coast Defence Corps
3. The Citizen Force which consists of—
- (i) The Active Citizen Force
- (ii) The Citizen Force Reserve
- (iii) The National Reserve

4. The South African Division of the Royal Naval Volunteer Reserve

EDUCATION

In the South Africa Act Section 85 (iii) it is provided that "No child is other than a native of Natal for a period of five years and there

1. Universities and university colleges comprising the following—

1. University of South Africa with the

| | Gold | | | | | | | | |
|-------|------------|---------|-------------|------|------------|---|------------|---|------------|
| 1920* | 8 158 455 | fine oz | £45,605 764 | 1922 | 51 473 450 | £ | 64 978 524 | £ | 116 391 97 |
| 1921* | 8 128 710 | | 43 082 162 | 1923 | 57 814 440 | | 81 047 094 | | 138,861 53 |
| 1922* | 7 009 858 | | 32 343 485 | 1924 | 65 815 517 | | 84 256 972 | | 150 294 48 |
| 1923* | 9 149 073 | | 41 574 945 | 1925 | 67 928 799 | | 82,365 219 | | 150 294 01 |
| 1924* | 9 575 040 | | 44 739 377 | 1926 | 73 159 054 | | 75,926,117 | | 149 085 37 |
| 1925 | 9 597 592 | | 40 767 981 | 1927 | 73 955 308 | | 80 046 654 | | 154 001 96 |
| 1926 | 9 954 762 | | 42,285 139 | | | | | | |
| 1927 | 10 122 491 | | 42 007 608 | | | | | | |

Imports

1926

1927

Totals

| | |
|---|------------|
| £ | 180,328 |
| £ | 1 150 652 |
| £ | 8 041 |
| £ | 1 003 200 |
| £ | 182,650 |
| £ | 12,285 095 |
| £ | 15 813 |
| £ | 43,620 |
| £ | 225 724 |
| £ | 382,194 |
| £ | 1 066 377 |
| £ | 27 380,799 |
| £ | 3,700 877 |
| £ | 807 903 |
| £ | 374,336 |
| £ | 793 944 |
| £ | 254 722 |
| £ | 91 569 |
| £ | 54,844 |
| £ | 19 117 948 |

* 1920 & 1921 £ 20 947

* Exports included—1920 1921 1922 1923 1924 1925 1926 1927
 £ 20 947 £ 20 947 £ 20 947 £ 20 947 £ 20 947 £ 20 947 £ 20 947 £ 20 947

Imports from the N. (1927)
Exports to the N. (1927)

£33 127 538
48 648 292

1925

1926

Imports

1925

1926

1927

depreciation) amount to £17 937 177 or
74.45 per cent of the above revenue as com-

| | £ | £ | £ |
|----------------|------------|----------------|------|
| United Kingdom | 35 500 759 | 48 533 127 538 | 44.8 |
| Australia | 1 910 066 | 2 028 019 | 2.8 |
| India | 2 581 864 | 3 524 655 188 | 3.3 |
| China | 2 075 367 | 2 919 221 | 2.7 |
| Other Ports | 3 363 213 | 4 645 999 536 | 6.2 |

Total Imports
from the N.

1925

1926

1927

and

Total Imports
from the N.

1925

1926

1927

and

| | £ | £ | £ |
|---------------|-----------|----------------|------|
| France | 4 540 104 | 6 255 334 273 | 7.2 |
| United States | 1 383 613 | 15 611 154 409 | 15.3 |
| Belgium | 1 265 120 | 1 725 187 83 | 2.1 |
| Sweden | 1 196 123 | 1 613 112 147 | 1.8 |
| Holland | 1 107 299 | 1 510 068 139 | 1.4 |
| Italy | 985 534 | 1 389 214 | 1.1 |
| Spain | 1 431 152 | 2 017 763 479 | 2.4 |
| Other Ports | 3 818 850 | 8 065 575 357 | 8.9 |

Total Imports
from the N.

1925

1926

1927

and

Total Imports 73 159 054 100 073 655 309 100.0

COMMUNICATIONS

and Telegraph 1927-28 was £2 552 512 expenditure £2 511 889 (Postal and Telegraph). The revenue of the telegraph service was £530 994 that of the telephone service £1 383 752 and the expenditure for telegraph £1 314 699 7 744 miles of telegraph

Imperial Crown Colonies and Protectorates

Notes—The Indian Empire, The Dominions of Canada, Newfoundland, The Commonwealth of the Bahamas, The Dominion of New Zealand and The Union of South Africa shown separately in the preceding pages

ASCENSION

(See THE BELL)

BAHAMAS

(See THE BELL)

BARBADOS

(See THE BELL)

BERMUDA

Naval Commandant of the Atlantic
(Cyril Fuller R.N. C.M.G. D.S.O.)

Harbour Master Lieut. Col. R.
Lovelace R.N.

Lt. Col. R. A. Leach M.C.

Lt. Col. F. B. Leigh M.C.

Lt. Col. J. A. Turbott M.C. D.S.O. R.N.

Hanilton 1970: New Zealand 1970

BORNEO

ZULULAND

270 741

Pretoria is distant from London 7 200 mi
transit to : Capetown 20 daysba
u
• hr h
m73
173
31
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Y 2000 000 000

— 2000 000 000

| CHURCH | 98 846 | 94 547 |
|------------------|--------|-----------|
| Presbyterian | 31 715 | 22 407 |
| Methodists | 37 941 | 143 441 |
| Roman Catholics | 23 419 | 24 490 |
| Lutherans | 4 583 | 236 315 |
| Other Christians | 19 542 | 64 437 |
| Jews | 23 515 | 4 |
| Hindus, &c | 1 804 | 25 409 |
| No Religion | 4 507 | 2 013 417 |

There were 2 000 000

Administration — The government is administered by an Administrator assisted by a Provincial Council of 25 members (elected for 3 years). There is an Executive Committee of 41 members.

Administrator, Hon. C. T. M. Willmots.

Executive Committee E. A. van der Waal, J. A. D. Verfontein, H. J. (Klein) van der Walt, T. van Schalkwyk, jr.

1 mile, transit to Capetown, 19 days

Imperial Crown Colonies and Protectorates.

NOTE—The Indian Empire, The Dominion of China, Newfoundland, The Commonwealth of Australia, The Dominion of New Zealand and The Union of South Africa are shown separately in the preceding pages.

ASCENSION

(See ST HELENA.)

BAHAMAS

(See BRITISH WEST INDIES.)

BARBADOS

(See BRITISH WEST INDIES.)

BERMUDA

Naval Commandant is Chief of the Armies.

Cyril Miller R.N. C.M.G. D.S.

Harbour Master Lieut. Com. R.N.

Leveland R.N.

C. I. A. Major J. S. Leach R.C.

C. I. F. Lt. Col. F. J. Leach R.E. M.C.

S. M. O. Lt. Col. J. A. L. Smith R.E. M.C.

Hamilton 2970 miles transit no fare

BORNEO

The chief imports are rice cloth
petroleum and sundries the
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1er Directors G E B Bromley
Mallet Capt A G Co e
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the Netherland is being
the sea and intersected with canals constructed
by its former Dutch owners. At the juncti-
tion of the boundaries of British Ceylon and

Under Secretary C. L. Smith (act. gk.)

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| Craig, DSO | |
| Postmaster-General F Elkitt | |
| Surgeon-General A. Leysar | |
| P James Kelly M B | |
| Commr of Lands & Mines J | |
| AYM M PSI | |
| Harbour Master Capt H de P Lupper M V | 49 740 |
| Dir of Agriculture Prof T W Leys Dashi | 1 204 |
| Chief Justice Sir Anthony De Freitas | 4 374 |
| O.B.E. | 3 402 |
| Private Judges W J Gilchrist | 2 430 |
| | 3 688 |
| | 3 402 |
| | 2 400 |
| | 4 008 |
| | 2 916 |
| | 2 250 |
| | 6 000 |
| | 3 402 |
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| | 2,000 |
| | 1 800 |
| | 2,430 |
| | 2,000 |
| | 5 701 |

the Florida Channel (North America) to within 2 miles of the coast of Venezuela (South

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| Pres., Legislature Council | Sir George H | |
| Gambier | " " | £ |

1 area of the archipelago is nearly 100 000 square
 2 miles of which 75 000 is water. The islands are made

Nassau is distant from Liverpool 4,000 miles.

1 APR 1961 - 5 APR 1961

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| Public revenue | £485 319 |
| Expenditure | 542 086 |
| Deficit | 56 767 |

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1. *Let's*

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1. *Chlorophyll a* (Chl *a*)

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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in 1928, 398,607, of which 294,069 for British

Governor His Excellency Sir Wilfrid
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1. *Chlorophyll a* (Chl *a*)

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Clerk, dr, E A Layne :

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MANACK, 10 Q.

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| Haiti, and called 'Las Tortugas' Population (1921) 5953 | Crown Attor | St Kitts Hon W M Wiley £25 |
| | " | Dominica Hon F R B 522 0 25 |
| | " | Smith £300 1 6 |
| | " | at Cheval and Surf of |
| | " | Hon A E. Collins, P 10 |
| | " | £600 10 70 |
| | " | ir of Police Lt.-Col. E. |
| | " | Inspector of Schools L. Tucker, 180, R.A. 33 |
| TURKS AND CAIC ISLANDS | | |
| These West India island geographically form | Revenue | £253 5 7 1331 3 4 228 30 |

| | | | | |
|-------------------------------------|---------|-------------|---------|---------|
| Revenue | £11 522 | Revenue | £93 430 | £77 90 |
| Expenditure | 14 568 | Expenditure | 63 249 | 101 33 |
| Total imports | 47 693 | Public debt | 145 300 | 115 20 |
| Total exports | 24 063 | | | 2000 |
| Commissioner and Judge H E Phillips | £700 | | | £216 16 |
| Grand Turk and 13 days | | | | 59 20 |
| and 12 days | | | | 5 997 |
| | | | | 11 |

James C
First Judge
Sullivan
General P
A F 1st
1st Colonel
Attorney
Treasurer

The Island is of the ...

[illegible]

| | | | | |
|-------------------------------------|-----|-------------|--------|--------|
| Superior of J b H L | 400 | See o | 20 486 | 20 130 |
| Ajr ult of Super i e d t l L Kelsch | 437 | Expe ill no | 19 986 | 37 278 |
| (3) De vint y | | Pullu l t | 14 100 | 14 300 |
| | | | 1908 | |
| | | | | 66 434 |
| | | | | 86 000 |



Administrator & Col. Sec. Charles W.

CAPITAL Kingstown Population (1921) 3,836

| | 1927 | 1928 |
|---------------|---------|---------|
| Full revenue | £56,469 | £64,593 |
| Expenditure | 61,564 | 60,441 |
| Total imports | 172,097 | 192,476 |
| Total exports | 145,815 | 158,472 |

Administrator and Colonial Secretary

C. E. E. (and
Chief of Staff Maj. E. E. E. E. E.
(and quarter)

CAMEROONS

(Joint Franco-British Administration.)

The German Protectorate of Kamerun on the

Governor and Commander in Chief of His Ex
cellency General Sir A. J. Godley
C.C.B. F.C.M.G. C.B. C.S.I.

were cocoa £11 229 512 gold and gold dust
£684 815 in Japanese £610 209 and diamonds

GOLD COAST

Total revenue

1907-08 1908-09
£4 121 427 £3 162 7

Count of the Empire

| | |
|---|--------|
| Chief Commissioner, J. J. Maxwell, C.B. | £1,000 |
| Deputy Chief Commissioner, M. J. W. Y. | £1,000 |
| Jackson, C.B. | £1,000 |
| Provincial Commissioners — | |
| Eastern Province (Kumasi) A. J. Col. | £1,000 |
| Field — | £1,000 |
| Western Province (Nyanini) (vacant) — | £1,000 |
| Circuit Judge (Ashanti and Northern Territories) C. M. Barton | £1,000 |
| Secretary for Mines & Timber | £1,000 |
| Secretary for Native Affairs, H. N. New | £1,000 |
| lands | |
| Director of Prison, Capt. O. I. Hancock | £1,000 |
| O.R.E. | |
| Postmaster General, S. H. Gilling | £1,000 |
| Deputy Postmaster General | £1,000 |
| Harbour Master, T. J. M. C. L. | £1,000 |
| Hemans, J. N. | £1,000 |
| Engineer in Chief, Telephones, D. B. Evans | £1,000 |
| Surveyor General, J. A. Glendon | £1,000 |
| R.I.C.K. | |
| Inspector General, Police, Lt. Col. H. W. M. | £1,000 |
| Ramford, B. F. M. | £1,000 |
| Director of Public Works, D. J. O'Neil, C.B. | £1,000 |
| Commander of the Royal Artillery, King Church | £1,000 |
| Director of Agriculture, G. A. H. Black, M.C. | £1,000 |
| Director of the Colonial Survey, Sir A. E. | £1,000 |
| Hilton, M. C.B. | £1,000 |

Trade Fair, London, 1891, Commercial Intelligence Bureau, 11, Abchurch Lane, E.C. 4, Street, S.W.

Ashanti was named

Chief Commissioner, J. J. Maxwell, C.B. £1,000
Deputy Chief Commissioner, M. J. W. Y. £1,000
Jackson, C.B. £1,000
Provincial Commissioners —
Eastern Province (Kumasi) A. J. Col. £1,000
Field — £1,000
Western Province (Nyanini) (vacant) — £1,000
Circuit Judge (Ashanti and Northern Territories) C. M. Barton £1,000

NORTHERN TERRITORIES.

In 1900 the Northern Territories were divided into 12 districts.

Provincial Commissioners —
Southern Province (Tamsui) C. C. £1,000
Duncan Johnstone £1,000
Northern Province (Nyanini) Lt. Col. £1,000
P. F. Whittall £1,000

Accra is distant from Liverpool, 3,900 miles (travelling 24 to 30 days).

Shut in the well with a water pump

Instructions: Indicate the position of the well (or any other point) on the map, and the direction of the water flow.

Consistent with the above findings, the following hypotheses were proposed:

2000 年 9 月 10 日

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average daily in the period ranges from 87 in July to 63 in February and the average daily in the period from 78 in June to 55 in February. The average annual

Mid ary Forces in C a
 GOC the Forces Maj Gen J W Sandlan is
 CB CM DSO
 ADC Lt D R M Came on
 CVO I Col J Med Haskard CMO DSO
 GSO II Maj W F Munro MC PP
 GSO III (Capt) V I Kirkfield DSO MC
 1 A
 AA QMC Col W D S Brown ex DSO
 DAA QMG Maj P H Campbell MC 1 M
 Staff Capt (Capt) D A T P
 Co and g I A It Col J A F Robson
 1 A
 Chief Engineer Col R I Skinner O N Y
 Staff I r of S & T Col H A Stewart DSO
 O Y
 Asst Dir of Medical Services Col T E Field
 MC DSO MC
 Asst Dir of Ordnance Col F S Tisdall DSO
 MC a d d a n a r Co P A B Young OBE
 MC a d d a n a r Lt Col I d r Co A R
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 H K 9834 n l 9 r l Suez Canal
 tra sit 20 days r r 14 lbs 1 25 to 22 days

THE ISLE OF MAN (MONA)

| | 1927 | 1928 | 1929 |
|--------------------|-------------|-------------|-------------|
| Public revenue | \$2,314,536 | \$2,496,000 | \$2,496,000 |
| Public expenditure | \$2,845,065 | \$2,845,065 | \$2,845,065 |
| Public debt July 1 | \$1,485,732 | \$1,485,732 | \$1,485,732 |
| Imports | \$3,000,000 | \$3,000,000 | \$3,000,000 |
| Exports from I. K. | \$5,123,418 | \$5,123,418 | \$5,123,418 |
| Exports to I. K. | 476,041 | 476,041 | 476,041 |

Governor and Council of His
Free and Accepted Masters of the
A.D.C. Capt. J. H. Lee
J. H. Lee Sec. Capt. A. J. L. Wylde
Colonial Secretary H. A. W. T. Bontinck
C.M.G.
Asst. and Clerk of Council D. W.
Trainman
Treasurer de Ho. C. M. Messer o.B.F.
Attorney General Hon. Sir Joseph R.
Kenj. C.M.G.
Deputy of the Works Hon. H. T. Treas.
B.V.
Chief Chest Agent Hon. E. P. H. I.
I. C. M. G. C.B.F.
C. J. H. H. u. d. r. l. l. e. r. y. Cow. r.
C. I. A. C. C.B.F.
J. u. d. i. c. e. H. l. l. o. J. I. Wood.
Capt. S. Perintenden of the Hon. F.
D. C. Wolfe C.M.G.
J. I. n. l. c. e. M. a. g. i. s. t. r. a. t. e. J. E. Jinks II
J. r. e. v. o. l. u. t. i. o. n. a. r. y. H. o. u. s. e.
H. A. I. Wall ton x.

What is governed by a law is a *Verum*

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 Secretary for Mines A. I. Roberts
 Secretary for Native Affairs, H. S. New
 lands
 Director of Prisons, Capt. O. L. Hancock,
 OBE
 Postmaster-General S. B. Gossling
 Deputy L. E. C. Crewe
 Harbour Master Zaboradi, Com. C. R.
 Hemans RN
 Financial Chief, Telegraphs D. B. Evans
 Surveyor-General, J. Glendinning B.Sc.,
 MICE
 Inspector Gen. of Police, Lt. Col. H. W. M.
 Bamford OBE MC
 Director of Education D. J. Oman OBE
 Conservator of Forests L. A. King Church
 Dir. of Agriculture G. G. Auchincloss, MBE
 Director of Colonial Survey Sir A. E.
 Kitson CMO CBE

Trade Enquiry Office in London Commis-
 Intelligence Bureau, Abbey House Victoria
 Street, W. 1

ASHANTI

NORTHERN TERRITORIES

Accra is distant from Liverpool, 3,900 miles
transit 24 to 30 days.

Accra is distant from Liverpool, 3,900 miles
transit 24 to 30 days.

ration is 27,648 square miles with a popula- The climate is very uniform and

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19 20x

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|---------------------|-------|---------|--------|--|--------|
| Para Rubber | To a | 126 784 | 1 | | 12 60x |
| Para Latex | Calla | 546 200 | 8 | | 12 60x |
| Ilia d'lin Ore | To a | 32 180 | | | 12 60x |
| Ca pra | | 57 535 | | | 12 60x |
| Birewood Timber and | | | | | 12 60x |
| Planks | | 61 087 | | | |
| Pice s d Padl | | 8 508 | | | |
| Pineapples (canned) | | 3 968 | | | |
| Taplocu | | 2 597 | | | |
| Arecanuta | | 1 256 | | | |
| Rattara | | 1 017 | | | |
| Palm Oil | | 8 52 | | | |
| Palm kernels | | 1 78 | | | |
| Gold | | 165 | | | |
| Gold | | 9 790 | 18 531 | | |

* All salaries are etc. paid etc.

len el in 1928 ex l i ve f i t ve craft was p l u t i o n s .

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ration is 27,543 square miles with a population of 1,000,000. The climate is very uniform, and though the temperature is not as high as in the tropics, it is not as low as in the temperate zone.

| Principal exports from the Federated Malay States — | | | Commissioner of Trade J. W. W. Hughes Secretary to H. J. Commissioner, H. C. | |
|---|------|---------|---|---------|
| | | 1927 | | 1926 |
| Para Rubber | Tons | 126,784 | | 126,600 |
| Para Latex | Tons | 346,200 | | 346,200 |
| Iron and Tin Ore | Tons | 52,130 | | 52,130 |
| Copra | | 57,535 | | 57,535 |
| Greenwood Lumber and Planks | | 61,087 | | 61,087 |
| Rice and Padi | | 8,508 | | 8,508 |
| Pineapples (canned) | | 3,068 | | 3,068 |
| Capoc | | 2,507 | | 2,507 |
| Arachnids | | 2,356 | | 2,356 |
| Rattans | | 2,037 | | 2,037 |
| Palm Oil | | 852 | | 852 |
| Palm Kernels | | 178 | | 178 |
| Gambier | | 165 | | 165 |
| Gold | | 9,790 | 18,537 | 18,537 |

* All sales are exclusive of 2

Director, Electrical Department W J Williams
 Conservator of Forests G E S
 Director of

\$18 000

Legal Adviser, W Pride
 Financial Commissioner, A R Smith
 Commissioner, Lands and Mines W E Pegg
 Commissioner, Trade and Customs S W Jones
 Assistant Adviser, Muar, A C. Parker
 State Engineer, Maj H F Waters
 Principal Medical Officer, Dr E D Fitzgerald
 Postmaster-General O Savanthal

General Manager Railways J Strachan 14 400
 Surgeon-General V A Lowmear 19 300
 Government Press Printer C C Peade 14 400
 Government Press Printer C C Peade 12 600

Malaya States Information Agency
 House 57 Charing Cross S.W. 1
 Kuala Lumpur is distant 800 miles
 London

Median, between 5° 5' - 6° 35' N, lies on the west coast of the peninsula. The area is large and fertile.

18, 1885 as amended
 May 18, 1914 when
 acts upon the advice
 the General Adviser
 four states the high
 administration and control were transferred by
 treaty to Great Britain by the Anglo-Siam
 Treaty of March 10, 1909. In all these states
 the trade is almost entirely carried on with the
 Straits Settlements. Currency, weights and
 measures are the same. The religion is Buddhism
 and Islam.

JOHORE, with an area of 7,678 square miles
 and an estimated population of 330,000 occupies
 the southern peninsula. It
 receives a British
 Consular Officer
 in that
 accepted. The

Revenue \$9,179,487
 Expenditure \$5,481,118
 Public Debt nil
 Sultan, H.H. Sir Abdul Hamid Halim Shah
 C.M.G.
 General H.H. Tunku Ibrahim, C.M.S., C.F.O.
 British Adviser, T.W. Clayton

PERLIS the

JOHORE produces
 copious quantities
 of African oil
 Tin ore and iron
 quantities of
 100 miles from
 there are 700 miles of metalled road.

Revenue \$18,230,000
 Expenditure \$15,848,460
 Public Debt nil
 Imports 30,422,254
 Exports 83,377,154

The Capital, Johore Bahru, has a population
 of 16,000.

Governor H.H. Sir Ibrahim

Lat and fertile, producing rice, sugar and
 betelnuts and affording pasture for large
 quantities of livestock.

Director, Electrical Department, W J Williams

General Manager Railways J Strachan
 Surgeon General V A Lowin, C.B.
 Government Town Planner, C C Fende

Malay States Information Agency Malaya

Revenue \$18,239,023 5/11
 Expenditure -- 15,828,240
 Public Debt -- 0/0
 Imports -- 30,422,252
 Exports -- 28,317,154

The Capital, Johore Bahru has a pop
 of 16,000.

Sultan ILM Sir Ibrahim G.C.M.G.

Col and ADC, Capt W I Catt
 and Royal Malta Artillery
 in charge of Administration Co
 T L Mable 190
 GSO Major J O'Donnell B.V. M.C.
 C. M. J. 4 Col C F Kelly C.M.C.
 190
 Chief of Staff Col J N McNeill C.M.G.
 Asst D. S. and T. Col G R H F
 Percival K.C.M.G. (B) 19
 Deputy Director of Medical Services Cc
 M H Edworthy 19
 Asst Dir Ord. Services Lt Col J J
 Store 190
 Commanding Officer of R. I.
 Drubeny C.B.V.

MALTA IMPERIAL GOVERNMENT

Isle of Malta Governor Sir Thomas Alex
 and Evans Best K.B.E. C.M.G.
 Legal Adviser R F Malinoff
 Clerk of Council and Secretary to the
 Maltese Imperial Government E I
 Milne O.B.E.

THE MINISTRY (Aug 25 1927)

Head of Ministry and Minister for Police
 and Justice The Rt Hon and Most
 Noble Lord Sticksler K.C.M.G. I.L.B.
 M.L.A. C. M. de la Cate A.

Public Instruction and Migration Hon
 Senator P. F. Sir A. Bartolo L.D.

Minister of the Interior and for Public
 Health Hon Prof Robert V. Galea
 M.L.A.

Public Works Hon Edwin P. Vassall
 M.L.A.

Industry and Commerce Hon Walter
 Salomone M.L.A.

Police Hon J. Hamilton I.L.A.

Justice of the Peace Hon and Most
 Noble Capt. J. M. De Piero I.L.A.
 Baron of Radask

Speaker of House of Assembly Hon
 A. I. Montenegro C.M.C. L.L.B. M.L.A.

Official Secretary to Head of Ministry
 Arthur Galea

Public Transport and Engineering Council
 J. P. V. L.L.B. (Act 9)

Superintendent of Public Works Hon J. A. Gallias
 O.B.E.

Rector of the University Prof T. Agius
 M.D.

Collector of Customs and Excise of Ports
 James Turner

Controller of Charitable Institutions
 Felice Mercieca

Treasurer and Director of Customs Hon
 J. H. Ver O.B.E.

Chief of Post and Telegraph Officer Hon A. Critchley
 O.B.E. M.I.

Inspector General Col A. Trajan

Postmaster-General J. L. L. L.

Commissioner of Police J. L. L. L.

Deputy Commissioner of Police J. L. L. L.

Justice of the Peace Hon J. L. L. L.

Justice of the Peace Hon J. L. L. L.

Justice of the Peace Hon J. L. L. L.

MAURITIUS

Mauritius, was rest red.
 Of the total cultivated area of 194,650 acres,
 157,700 are under sugar so 36,950 under other crops the necessities of life
 16,950 under other crops the necessities of life
 have all to be imported from abroad.

CAPITAL, Port Louis

Public revenue
Public expenditure
Public debt
Paper circulation

Total imports
Total exports
Imports from U.K.
Exports to U.K.

Governor and Council
(Vacant)

Commanding Forces

McDiarmid I. O., R.

Colonial Sec. Sir E. A.

Asst. Col. Sec. W. I.

Procureur and Advoca

Natrac & C.

Receiver General H. F.

Director of Agriculture

de Charnoy I. O.

Collector of Customs

Dexter B. A. Franc

Inspector of Immigrants

Director of Public Works

Maj. L. F. Régnard,

Registrar General T.

Auditor A. Standley

Director Medical and

J. B. Kirk

Rector, Royal College

(acting)

Chief Judge, Hon. T. E.

Justice Judges, Hon.

dimenville H. O.

(acting)

DEPENDENCIES

156,150 7,488

£6.

2 21 180 telegraph
Lieut. Governor Southern Provinces W.
Lieut. Governor Northern Provinces H.
Police C.M.G., C.R.F.

* Net Railway Revenue only in

Colonial and Victoria Regt.
Greenwell J. Cox
Colonial and Victoria Regt.
Colonial and Victoria Regt.
Colonial and Victoria Regt.

Director of the Medical and
Colonial and Victoria Regt.
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NYASALAND PROTECTORATE

This country was proclaimed a British
protectorate on May 24 1892. The Protectorate
covers the western shore of Lake Nyasa
and the country northwards nearly to the

The chief towns are Lilongwe (population
600 Europeans and 7000 natives). Lilongwe
Lilongwe at Lilongwe. The land is watered by
Governor's.

| | 1902 | 1901 |
|-------------------------|----------|----------|
| Revenue | £316,347 | £2,407 |
| Expenditure | £268,319 | £207,319 |
| Imports (excl. transit) | 938,484 | 860,484 |
| Exports (excl. transit) | 960,869 | 700,869 |
| Imports from U.K. | 410,634 | 343,634 |
| Exports to U.K. | 944,343 | 671,343 |

Colonial and Victoria Regt.
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Muslim lands sin
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stem) W G Litt (H 1 fa)

ster General, W Hudson O R E. M
Manager Palestine Landings
B. W Holmes O R E. M

ment Railways is at Lybia, the general offices
being at Haifa.

The chief ports are Jaffa Haifa

area. The Emirate has an Arab
population of about 200,000, of whom all
are Muslims. The area is unknown

French Resident Lt Col (i) H F Cox CVO

Chief Comm and 2 Arab Leg Lt Col (i) G

Peake CRE

RHODESIA

The total area of Rhodesia is about 440,000

for as (i) in East Africa about 3,250 miles
from the Cape

Northern Rhodesia is rich in mineral deposits

distance from Cape Town is 1,300 miles. A line connecting Bulawayo with Salisbury children there are 85 Government schools

number of 110, appointed by the sovereign. The government of Sarawak was obtained in 1841 from the Sultan of Borneo by the late James Brooke, who became well known as Rajah Brooke of Sarawak. Other concessions have been made in 1861, 1881, 1884 and 1891 when the Limbang River was obtained. Lawas River was added in 1891.

CAPITAL, Victoria

Revenue
Expenditure
Imports
Exports

CHIEF TOWN, Kuching. Population (1911), 30,000. Distance from London 8,700 miles. Transit, 25 to 30 days. There are 20 wireless

Letters from London and Marseilles, 24 days to London, 27 days.

a Legislative Council partly elected and partly nominated by the Crown with full power to legislate for the Protectorate as well as for the Colony. The Governor is assisted by an Executive Council.

Secretary to the Governor: Major A. G. Lawrence, 181, Victoria Road, Lagos. £900 to £1,000.
 Colonial Surgeon (1st Grade): Major J. B. H. Horsley, D.S.O., M.C., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Principal Secretary: Major A. G. Lawrence, 181, Victoria Road, Lagos. £900 to £1,000.
 Colonial Surgeon (1st Grade): Major J. B. H. Horsley, D.S.O., M.C., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Distance from London: 1,000 miles.

Distance from London: 1,000 miles.

Freeport is 1,078 miles from Liverpool by air in 20 days.

SOMALILAND

(The Somaliland Protectorate)

Somaliland occupies the North Eastern Horn of the African continent.

Chief Clerk: H. L. Smith.
 Assistant Chief Clerk: J. A. Williams.

The High Commission—The office of the High Commission which was formerly combined with the Governorship of Cape Colony.

1905-1907
 Total Expenditure: £417,516
 Total Receipts: 257,575
 Governor and Commander-in-Chief: E. Exell, C.B.E., Major-General.
 Assistant Governor and Deputy: J. A. Williams, M.C., Major-General.
 £350

Jern A T Lord
 Chief Veterinary Officer F A V
 Chief Receiver
 Director of Public Works H W Gill
 Director of Public Works H W Gill
 Chief Engineer Settlement, F D Str
 M D

Chief of Stores, Stephen Bernard D
 Agricultural Officer, L. Wachter
 Chief Clerk and Interpreter and Mas
 (Court, H J Godden, M D

Maseru is distant from London 1,000
 transit through the Cape, about 1,000

BECHUANALAND

(The Bechuanaland Protectorate)

The Bechuanaland Protectorate is a country
 of British South Africa in the north of the

850 Deeds, E. E. Goodman

NWAZILAND

(The Swaziland Protectorate)

East Africa,
incl ex, and t
who in a regt
Amazons]

not exceed 6
water 1 and

London Office

Revenue
& Expenditure

£1 904 000
1 707 000

£1 972 858
1 873 007

The United States of America.

AREA AND POPULATION

| Divisions | Census Area 1920 (sq. miles) | Population | |
|-------------------|---------------------------------|--------------|--------------|
| | | Census 1910. | Census 1920. |
| United States | *3 026 89 | 91 977 266 | 102 710 620 |
| Alaska | 90 884 | 64 356 | 55 036 |
| Guam | 210 | 11 806 | 13 275 |
| Hawaii | 6 449 | 101 909 | 255 912 |
| Panama Canal Zone | 527 | 62 810 | 22 858 |
| Philippines | 112 026 | 67 635 426 | 110 350 640 |
| Porto Rico | 3 435 | 1 118 012 | 1 299 809 |
| Samoa | 77 | 27 221 | 8 056 |
| Virgin Islands | 13 | 27 086 | 220 021 |
| Military & Naval | — | 55 608 | 117 238 |
| Total | 3 743 529 | 101 146 530 | 117 809 492 |

* Land Area Continental United States a 973 774
 b Population 1920 c 1903 d 1911 e 1917

Increase of the People—(Continental U.S. only)

| Year | Total | | Total | Per Cent | Increase |
|------|------------|------------|-------------|------------|-----------|
| | White | Colored | | | |
| 1860 | 25 922 537 | 4 520 784 | 30 443 321 | 8 251 445 | 8 511 060 |
| 1870 | 33 589 377 | 4 968 994 | 38 558 371 | 7 115 050 | 8 377 279 |
| 1880 | 43 402 970 | 6 752 813 | 50 155 783 | 11 597 412 | 8 812 191 |
| 1890 | 55 101 258 | 7 845 454 | 62 946 712 | 14 791 931 | 5 246 613 |
| 1900 | 66 809 196 | 9 285 379 | 75 994 575 | 13 046 861 | 3 687 564 |
| 1910 | 81 731 957 | 10 240 309 | 91 972 266 | 15 977 691 | 8 795 381 |
| 1920 | 94 820 915 | 10 889 705 | 105 710 620 | 13 738 354 | 5 735 811 |

BIRTHS AND DEATHS

IMMIGRATION AND EMIGRATION

| Year | Births | | Deaths | | Year | Immigration and Emigration | | | |
|------|-----------|---------------|-----------|---------------|------|----------------------------|---------|--------|-------|
| | Number | Rate per 1000 | Number | Rate per 1000 | | Total | Total | Total | Total |
| 1910 | 1 373 435 | 22.3 | 1 066 436 | 17.0 | 1916 | 1 040 884 | 74 893 | 23 809 | |
| 1920 | 1 568 874 | 23.7 | 1 141 555 | 13.1 | 1923 | 1 209 786 | 117 480 | 51 990 | |
| 1921 | 1 714 261 | 24.3 | 1 032 009 | 11.6 | 1924 | 1 184 894 | 115 328 | 51 984 | |
| 1922 | 1 774 911 | 22.5 | 1 101 863 | 11.8 | 1925 | 1 181 333 | | 51 147 | |
| 1923 | 1 794 646 | 22.4 | 1 103 017 | 11.3 | 1926 | 1 181 333 | | 51 147 | |
| 1924 | 1 910 654 | 22.6 | 1 173 900 | 11.8 | 1927 | 1 181 333 | | 51 147 | |
| 1925 | 1 878 880 | 21.4 | 1 118 019 | 11.8 | | | | 51 147 | |
| 1926 | 1 846 068 | 20.6 | 1 181 021 | 11.8 | | | | 51 147 | |
| 1927 | 1 837 836 | 20.6 | 1 236 949 | 11.4 | | | | 51 147 | |
| 1928 | 1 833 149 | 19.7 | 1 378 675 | 12.0 | | | | 51 147 | |

* Excludes Alaska

See also

the insure the remuneration usually exceeds \$400. In the first year of the course 75 per

Private High Schools and Academies 1927-28
The number of pupils in private high schools

1928 467 were for boys only,
only Altogether 116 of
white) drill in 1928 enrol

FINANCE

RECEIPTS AND EXPENDITURE
CHARGEABLE AGAINST

DAILY RECEIPTS
of daily Treasury statements

| Receipts | Expenditure |
|---------------|-------------|
| \$ | \$ |
| 4 013 044 702 | 3 506 677 7 |

1924

FIRE LOSSES IN THE UNITED STATES

(Estimated by the *Journal of Commerce*)

| | | | | | | | |
|------|-------------|------|-------------|------|-------------|------|-------------|
| 1890 | 108 993 794 | 1901 | 105 817 810 | 1912 | 206 438 000 | 1923 | 203 763 550 |
| 1891 | 143 764 967 | 1902 | 101 078 040 | 1913 | 203 763 550 | 1924 | 221 439 150 |
| 1892 | 131 316 098 | 1903 | 145 302 155 | 1914 | 172 003 200 | 1925 | 258 377 954 |
| 1893 | 167 544 370 | 1904 | 229 198 050 | 1915 | | 1926 | |
| 1894 | 140 006 484 | 1905 | 165 221 650 | 1916 | | 1927 | |

EXPENDITURES 1928 AND 1929

(Total of daily Treasury statements.)

| | 1928 | 1929 |
|---|----------------------|----------------------|
| General Expenses | \$ | \$ |
| Interest on Debt | 2,953,327,041 | 2,106,503,130 |
| Ref. div. | 721,764,476 | 678,330,400 |
| Customs | 21,856,901 | 21,828,476 |
| Internal Revenue | 118,286,060 | 100,727,887 |
| Postal deficit | 32,080,202 | 54,659,744 |
| Panama Canal | 10,449,879 | 9,045,647 |
| Special Operation | | |
| Railroads | 1619,721 | |
| War Finance Corp. | 13,813,040 | |
| Shipping Board | 34,881,713 | |
| Alcohol | 6351,151 | |
| Adjusted Receipts | | |
| Public Fund | 111,817,839 | |
| (Civil Service) Retirement Fund | 109,272 | |
| Investment of Trust Funds— | | |
| Government Life Insurance Fund | 61,701,568 | 52,160,112 |
| U. S. Teachers' Loan | 513,917 | 503,158 |
| Foreign Service | 82,938 | 182,444 |
| General Railroad Contingent | 1,772,957 | 977,843 |
| Total Ordinary | 3,103,264,854 | 3,298,859,486 |
| Public Debt Retirement | | |
| Interest charges on Public Debt | | |
| Receipts | 540,255,020 | 540,603,704 |
| Total Expenditures (Public Debt and Ordinary) chargeable against Ordinary Receipts | 3,643,519,875 | 3,848,463,190 |
| billed to excess of receipts. | | |

PUBLIC DEBT

The total interest-bearing Debt of the U. S. in 1918 and from 1926-1929 was as follows:

| | 1918 | 1926 | 1927 | 1928 | 1929 |
|---|-----------------|-----------------|-----------------|-----------------|-------------------------|
| Total interest-bearing Debt | \$1,985,882,436 | \$1,533,770,860 | \$1,530,943,965 | \$1,372,625,096 | \$1,712,754,739 |
| Interest on Debt | \$189,743,277 | \$139,937,700 | \$137,019,578 | \$131,764,476 | \$178,330,299 |
| Public Debt of the U. S. on June 30, 1929— | | | | | |
| 1. Government Bonds | | | | | \$599,724,050 |
| 2. Treasury Notes | | | | | 48,944,180 |
| 3. War Bonds | | | | | 25,947,400 |
| 4. War Bonds | | | | | 49,800,000 |
| 5. War Bonds | | | | | 28,804,500 |
| 6. War Bonds | | | | | 28,887,180 |
| 7. War Bonds | | | | | 1,939,148,900 |
| 8. War Bonds | | | | | 6,278,359,550 |
| 9. War Bonds | | | | | 758,984,300 |
| 10. War Bonds | | | | | 1,036,834,500 |
| 11. War Bonds | | | | | 489,087,100 |
| 12. War Bonds | | | | | 493,037,750 |
| 13. War Bonds | | | | | 759,032,950 |
| 14. War Bonds | | | | | 2,862,012,500 |
| 15. War Bonds | | | | | 1,640,199,500 |
| 16. War Bonds | | | | | 23,028,010 |
| Total Interest-bearing Debt | | | | | 16,638,941,370 |
| Matured debt on which interest has ceased | | | | | 50,751,390 |
| Debt held on no interest | | | | | 241,304,560 |
| Total Gross Debt | | | | | 16,931,197,740 |
| Matured Interest | | | | | 136,063,840 |
| | | | | | 17,067,261,580 |
| Less Cash in Treasury | | | | | 324,506,850 |
| Net Debt of U. S. | | | | | \$16,742,754,730 |

VESSELS ENTERED AND CLEARED AT UNITED STATES PORTS

The following figures compiled by the U. S. Bureau of Foreign and Domestic Commerce at Washington show the tonnage of American and foreign vessels entered and cleared at U. S. ports in the foreign trade for fiscal years:

| Year | American | Per Cent | Foreign | Per Cent | Year | American | Per Cent | Foreign | Per Cent |
|------|------------|----------|------------|----------|------|------------|----------|------------|----------|
| 1904 | 13,320,547 | 22 | 46,647,438 | 78 | 1917 | 37,870,464 | 37 | 64,608,720 | 62 |
| 1905 | 14,283,612 | 23 | 47,857,126 | 77 | 1918 | 38,489,763 | 42 | 52,960,156 | 58 |
| 1906 | 15,193,223 | 22 | 52,745,676 | 78 | 1919 | 41,020,745 | 44 | 51,855,000 | 56 |
| 1907 | 16,208,213 | 22 | 50,404,100 | 78 | 1920 | 55,239,879 | 51 | 53,953,160 | 49 |
| 1908 | 16,928,434 | 22 | 59,222,457 | 78 | 1921 | 67,946,336 | 49 | 70,124,833 | 51 |
| 1909 | 17,253,139 | 22 | 59,991,430 | 78 | 1922 | 59,755,488 | 48 | 63,159,285 | 52 |
| 1910 | 17,697,062 | 22 | 61,244,602 | 78 | 1923 | 61,293,398 | 46 | 72,196,123 | |
| 1911 | 19,446,233 | 23 | 65,665,903 | 77 | 1924 | 58,315,580 | 43 | | |
| 1912 | 22,960,565 | 25 | 69,614,418 | 75 | 1925 | 57,723,000 | 41 | | |
| 1913 | 27,028,760 | 26 | 74,779,764 | 74 | 1926 | 53,774,000 | 38 | | |
| 1914 | 27,470,703 | 26 | 79,101,283 | 74 | 1927 | 58,264,019 | 37 | | |
| 1915 | 26,693,736 | 29 | 60,901,818 | 71 | 1928 | 59,210,640 | 39 | | |
| 1916 | 25,829,722 | 34 | 68,143,163 | 66 | 1929 | 65,565,560 | 39 | | |

The lowest American percentage was 22 in 1906 and 1910; the highest

PRODUCTION AND INDUSTRY

Minerals—The total value of all mineral pro-

[illegible]

ACREAGE AND CROP PRODUCTION year .

[illegible]

Leading Industries (Ranking by Value of Products) in Principal Industrial C

Ve 1st—Printing
ing for goods Bread and
products Slaughterin and m
Millinery Fur refinin Electri
apparatus and supplies Mani
illumination and heating T race
(Lumber Slaughterin and m)
Printing and publishing Cl thing
machinery products Electri
apparatus and supplies Steel w
ling mills Bread and other baker
Philadelphia—Textiles Pri ti
lshin, Clothing Sugar refinin

rubber, Slaughtering and meat packing

Michigan—Motor vehicle bodies and motor
vehicle parts Motor vehicles not including
motor-cycles Foundry and machine shop products
Knit goods Boots and shoes other than

ju 14 6 yet me 8 11 1928 and more to
\$807 887 967 The number of motor vehicles
(including chassis) exported in 1928 was 515 762
not including 66 963 shipped as parts for
assembly

TRADE BY COUNTRY 1928 29

| Country | From U S | To U S | Country | From U S | To U S |
|-----------------------|-------------|-------------|--------------------------|-------------|-------------|
| <i>Europe—</i> | \$ | \$ | <i>South America—</i> | \$ | \$ |
| Austria | 5 530 000 | 11 900 000 | Argentina | 206 810 000 | 105 685 000 |
| Belgium | 117 921 000 | 74 758 000 | Brazil | 115 156 000 | 218 981 000 |
| Czechoslovakia | 5 684 000 | 43 456 000 | Chile | 50 703 000 | 95 663 000 |
| Denmark | 49 658 000 | 4 191 000 | Colombia | 59 835 000 | 91 726 000 |
| Finland | 16 805 000 | 10 295 000 | Peru | 25 810 000 | 25 912 000 |
| France | 250 449 000 | 167 356 000 | Uruguay | 29 110 000 | 16 881 000 |
| Germany | 441 576 000 | 245 861 000 | Venezuela | 47 782 000 | 48 457 000 |
| Great Britain | 864 807 000 | 342 495 000 | <i>Asia—</i> | | |
| Greece | 13 868 000 | 17 511 000 | British India | 51 650 000 | 153 495 000 |
| Italy | 164 455 000 | 108 497 000 | British Malaya | 12 888 000 | 221 763 000 |
| Netherlands | 142 059 000 | 82 772 000 | Ceylon | 3 63 000 | 30 625 000 |
| Norway | 22 777 000 | 19 355 000 | Hong Kong | 20 346 000 | 15 229 000 |
| Poland & Danzig | 17 357 000 | 4 138 000 | China | 143 227 000 | 151 665 000 |
| Portugal | 14 992 000 | 6 674 000 | Japan | 221 781 000 | 309 481 000 |
| Russia (Europe) | 59 269 000 | 18 076 000 | Neth. Ind. Isles | 47 744 000 | 63 578 000 |
| Spain | 90 082 000 | 35 077 000 | Philippine Is. | 87 363 000 | 122 276 000 |
| Sweden | 57 635 000 | 51 682 000 | Turkey (Asia and Europe) | 3 686 000 | 27 663 000 |
| Switzerland | 12 097 000 | 45 637 000 | <i>Oceania—</i> | | |
| <i>North America—</i> | | | Australia | 151 459 000 | 31 335 000 |
| Canada | 987 453 000 | 505 224 000 | New Zealand | 38 709 000 | 22 |
| Newfoundland | 10 305 000 | 10 651 000 | <i>Africa—</i> | | |
| Mexico | 118 685 000 | 222 809 000 | Brit. E. Africa | 64 330 000 | |
| Central States | 86 654 000 | 44 556 000 | Brit. W. Africa | 23 436 000 | |
| Cuba | 133 486 000 | 214 134 000 | Egypt | 22 612 000 | |
| Honduras | 16 076 000 | 9 206 000 | | | |
| Neth. W. Indies | 22 702 000 | 61 619 000 | | | |

PRINCIPAL PORTS OF U S MERCHANDISE

| Commodity | 1927-8 | 1928-9 |
|----------------------------|-------------|-------------|
| Meat products | 68 278 000 | |
| Animal Oils and Fats | 117 074 000 | |
| Lard | 94 545 000 | |
| Feather and manure | 75 878 000 | |
| Furs and manufactures | 41 330 000 | |
| Fruits and preparations | 401 219 000 | |
| Wheat and flour | 285 167 000 | |
| Edibles and feeds | 30 774 000 | 34 253 000 |
| Fruits and nuts | 113 673 000 | 150 873 000 |
| Fur and manufactures | 68 902 000 | 75 835 000 |
| Natural Stores Glass &c | 29 635 000 | 28 701 000 |
| Edibles and manufactures | 155 080 000 | 172 133 000 |
| Cotton manufactures | 820 536 000 | 868 218 000 |
| Stomach and Varn | 135 389 000 | 142 231 000 |
| Cloths &c | 78 222 000 | 85 498 000 |
| Wool and mill products | 109 803 000 | 109 699 000 |
| Wool and manufactures | 37 294 000 | 40 034 000 |
| Coal and Coke | 93 183 000 | 104 180 000 |
| Petroleum and products | 482 358 000 | 544 085 000 |
| Refined Oils | 413 000 000 | 483 846 000 |
| Iron & Steel mill products | 158 810 000 | 199 558 000 |
| Iron & Steel manufactures | 74 380 000 | 88 768 000 |
| Copper and manufactures | 164 856 000 | 183 021 000 |
| Black & Grey | 464 151 000 | 562 737 000 |
| Automobile and parts | 415 101 000 | 590 678 000 |
| Chemicals | 72 101 000 | 77 806 000 |

TRAD BY CONTINENTS 1025 80.

| Con. Item | Permit | Total |
|-----------|--------|-------|
| | \$ | \$ |

FEDERAL EMPLOYMENT EXPENSES

Activities of the U S Employment Service
Department of Labor showing the work done
during the fiscal years ending June 30 —

ADULT 9FRIACF

| Year | Resistant | High Warrant | Referred | Placed |
|------|-----------|--------------|----------|---------|
| 1923 | 887 697 | 354 393 | 516 617 | 136 466 |
| 1924 | 755 593 | 401 357 | 104 680 | 806 990 |

JEOPARDY!

| Year | Disin- tra n k | Hel Wa tol | Ref red | Thon |
|------|-------------------|---------------|---------|--------|
| 1925 | 78 563 | 21 846 | 29 949 | 22 131 |
| 1926 | 53 021 | 28 007 | 36 257 | 24,734 |
| 1927 | 55 261 | 27 988 | 36 111 | 21 631 |
| 1928 | 56 116 | 29 117 | 36 741 | 26 077 |
| 1929 | 61 424 | 35 027 | 42 848 | 31 360 |

PRINCIPAL IMPORTS

| Commodity | 1927-8 | 1928-9 |
|--------------------------|-------------|-------------|
| | \$ | c |
| Meat products | 34 619 000 | xx |
| Livestock | 34 464 000 | x |
| Hides | 38 179 000 | x |
| Hides and skins raw | 146,473 000 | |
| Leather and manufactures | 67 030 000 | |
| Furs and manufactures | 113,284 000 | xx |
| Vegetables &c | 39 195 000 | |
| Fruits and Nuts | 85 804 000 | x |
| Cocoa and Cocoa Beans | 55 793 000 | x |
| Coffee | 897 854 000 | xx |
| Cane sugar | 34,451 000 | x |
| Rubber crude | 305 750 000 | x |
| Oil Seeds | 58 854 000 | x |
| Vegetable Oils | 74 715 000 | |
| Tobacco and manufactures | 66 819 000 | 63 235,000 |
| Textiles manufactured | 44 803 000 | 56 437,000 |
| Textile manufactures | 67 978 000 | 71 583 000 |
| Wool and manufactures | 97 330 000 | 100 866 000 |
| Wool manufactures | 55 809 000 | 48 727 000 |
| Wool and Mohair | 79 443 000 | 86 130,000 |
| Wool manufactures | 82 664 000 | x |
| Silk manufactures | 28,469 000 | xx |
| Silk manufactures | 42 533 000 | xx |
| Manufactures | 57 378,000 | x |
| Paper and manufactures | 109 609 000 | x |
| Paper and manufactures | 153 668 000 | x |
| Standard measuring | 136 480 000 | xx |
| Petroleum & products | 124 776 000 | x |
| Ammonia | 56 482 000 | xx |
| Chemical manufactures | 78 872,000 | |
| Chemical manufactures | 95 104 000 | xx |
| Chemical manufactures | 53 775 000 | xx |
| Fertilizers | 73 984 000 | x |
| Art Works | 60 531 000 | xx |

COMMUNICATIONS

RAILWAYS OF THE U.S.

DATA PERTAINING TO CLASS I, II AND III
CARRIERS AND THEIR OPERATING SUBSIDIARIES -

number of freight cars
 1 serv
 number of units in company
 serv
 (a) as in serv

| Year | 3 | es | area est. | 1 | 1 | es |
|------|---|----|-----------|------|-----|-----|
| 1909 | | | 244 084 | 19 9 | | 0 |
| 1910 | | | 149 992 | 1920 | 1 | 2 |
| 1911 | | | 254 732 | 1921 | 2 | 4 |
| 1912 | | | 253 033 | 1922 | 2 | 2 |
| 1913 | | | 261 076 | 1923 | 202 | 402 |
| 1914 | | | 263 547 | 1924 | 262 | 258 |
| 1915 | | | 264 378 | 1925 | 261 | 871 |
| 1916 | | | 266 031 | 1926 | 261 | 562 |

DECLAMATION

Co n s u m e r E d w o o d M e a t I n t e r i o r D e p t
 B u i l d i n g 19th and F N W W a s h i n g t o n D C

ately \$1 237 000 000
 SHIPPING.—On J u n e 30 1929 t h e a l e 275 822 500 c u y a r d s o f m e r c h a n d i s e i n c o m m o d i t i e s f l e t f o r 500 d a y s t o s a i l w i t h t h e w o r k t h e n h a s b e e n c o m p l e t e d .

articles of interest to irrigation for the office ever

office of the Bureau of the Washington

GOVERNMENT PRINTING OFFICE

COTTON PRODUCTION

Estimate of Cotton Acreage by States

| State. | Area in Cultivation | | | 10-year average abundant time 1909-1918 Per cent |
|------------------|-------------------------|---------------|------------------------|--|
| | July 1, 1928. Acres. | July 1, 1929. | | |
| | | | Percentage of 1928. | Acres |
| | 81,000 | 110 | 89,000 | 110 |
| | 1,809,000 | 101 | 1,812,000 | 101 |
| | 3,485,000 | 97 | 3,410,000 | 98 |
| | 3,283,000 | 101 | 3,312,000 | 101 |
| | 101,000 | 110 | 111,000 | 110 |
| | 355,000 | 55 | 192,000 | 54 |
| | 1,145,000 | 96 | 1,100,000 | 96 |
| | 3,643,000 | 104 | 3,789,000 | 104 |
| | 4,154,000 | 106 | 4,403,000 | 106 |
| | 2,052,000 | 108 | 2,216,000 | 108 |
| | 18,330,000 | 102 | 18,697,000 | 102 |
| | 4,410,000 | 106 | 4,683,000 | 106 |
| | 3,834,000 | 106 | 4,064,000 | 106 |
| | 123,000 | 107 | 131,000 | 107 |
| | 203,000 | 112 | 226,000 | 112 |
| | 223,000 | 143 | 319,000 | 143 |
| | 23,000 | 104 | 24,000 | 104 |
| Total | 46,946,000 | 103.2 | 48,457,000 | 103 |
| Lower California | 160,000 | 94 | 151,000 | 94 |

10-year average 1909-1918. A including (in a part) and long stay in the area of the State. Not included in the total figures are the United States.

Dependencies of the L. S. A.

Mobile Ala.—Vice Consul, T. M. Rosa.

Assistant to Naval Attaché, Comm.

Mitcheson

Pro Consul, Walter F. James M. R. E. H. H. York

Buffalo—Vice Consul W. H. J. Cole

Philadelphia, Pa.—Consul Gen. F. Watson O. B. E.

Vice Consul C. G. Hamilton, A. H.

Land

CONSULAR REPRESENTATIVES

England

Land

Vice Consul Cyril L. F. Thiel

London (Consular Office 12 Cavenish

Square W. 1)—Consul General

Albert Halstead \$2,000, John

K. Davis

Consul, Lowell C. Pinkerton

(\$5,000) Robert B. Micallee

(\$500), Winfield H. Scott

Vice Consuls, John J. Claffey

Frank H. Larned, Daniel

Miller, William A. Carroll,

James E. Callahan, John H.

Lord Roy W. Baker

Manchester—Consul Foss E. H. Sadav

Newcastle-on Tyne—Consul, William B.

D. Ty

Plymouth—Consul Arthur E. Cooke

Vice Consul Franklin B.

Atwood

Sheffield—Consul W. J. Grace

Southampton—Consul, John M. Savage

Consul, John H. Bruns

Wales

Cardiff—Consul, Ralph C. Buser

Scotland

Dundee—Consul John J. C. Watson

F. Irish—Consul, Harold D. Hiley

Glasgow—Consul General in Charge, U. E.

Chamberlin

Consul, Reginald S. Little

man

Consul, Marcel E. Matice

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Directors R. Wilberforce C. B. E., A. Fletcher

BRITISH EMPIRE CHAMBER OF COM

Office Cunard Building 25 Broad

York City

II—13 REPRESENTATIVES IN

EMPIRE

EMBASSY

A. Morgan for Extension

Commercial Attaché D. Pauli Reusman

Asst do, Homer S. Fox

Naval Attaché, Capt. William W. Galbraith,

C. H. C.

Perris

Vice Consul Julian F. Har

rington (\$3,000), Early B.

Christian (\$2,000) Frederick

R. Larny

Col. H. A. Boucher

Vice Consul, Basil C. Elkington,

Wm. L. Peck

Galway—Consul Agent Robert A.

Fennell

The following are the salaries of the British Consuls in the various countries of the British Empire.

The following are the salaries of the British Consuls in the various countries of the British Empire.

Salaries and Allowances

| Rank | First | Second | Third | Fourth |
|---|--------|--------|--------|---------|
| Consul-General | £1,500 | £1,200 | £1,000 | £800 |
| Consul | £1,000 | £800 | £600 | £400 |
| Consul-Resident | £800 | £600 | £400 | £200 |
| Consul-Comptroller | £600 | £400 | £200 | £100 |
| Consul-Inspector | £400 | £200 | £100 | £50 |
| Consul-Interpreter | £200 | £100 | £50 | £25 |
| Consul-Translator | £100 | £50 | £25 | £12 1/2 |
| Consul-Interpreter and Translator | £300 | £150 | £75 | £37 1/2 |
| Consul-Interpreter and Translator (with family) | £400 | £200 | £100 | £50 |
| Consul-Interpreter and Translator (with family) (with children) | £500 | £250 | £125 | £62 1/2 |
| Consul-Interpreter and Translator (with family) (with children) (with grandchildren) | £600 | £300 | £150 | £75 |
| Consul-Interpreter and Translator (with family) (with children) (with grandchildren) (with great-grandchildren) | £700 | £350 | £175 | £87 1/2 |

ABYSSINIA or ETHIOPIA

CAPITAL AND (Abt 80 000). The cl et
nmercial entre s Kn tal a (50 000) Other
provi l caj tain are Herat 20 000) Mazari
char f (20 000) au l h) au m l 5 000
Brit sh f roy f xtr f a J d M et r
I ten pote ta (a n l)

Council r
Secretary

Vlt ry ltt l

I enat o s gea

Orie tal y rea

Br sh C l J ala a

Br sh C l t ha a

ALBANIA

Shq penia.)

A g of l e l lbr

a ex la l lau

4010 x 1928.

7 1

31 925

1893 e lnd

n al h ng

M s e s a

Total Imports 1927
Total Exports 1927
£967 275 £
444 276

CAPITAL T a n (pop 14 000) other
are 50 tari (p) 28 000) Lhasan (pop
Lemat (pop 8 500) A ritta or
(pop 25 000) D iraxx (p p 5 000) and
(p p 6 000)

BRITISH LEGATION

(Rru Ton orica Duraxx)

Br tish f no f x t aurd l ary M e e

solent ar ja ul (a s l Ge erol S r E H.)

K.R.K. C W G (1928)

Naval Atta h l Captaln I H L Bevan

M V N N

M l ta y At cl (ol J J H Nat o c

Arch r et f W Borman

Alba a e r etary (l cat r l) Tr phosi

BRITISH CONSUL OFFICE

u az - l e C x l (lont a h of x d b

tary) N l Jor l s

ANDORRA

| | | | |
|--|--|-------|---------------------------------------|
| Suits as Card & Ne waste type-T | No export | Total | -Of the total available tonnage third |
| suit lamone as Vice- Insulator at Aberdeen | is suitable for agriculture and cattle riding. | | |
| Gelfant Lental H M M Teda e M Hleber ngh | The principal productions are wheat, maize | | |
| and Swannsea | and wool hides cutl | | |

formed, and a President elected. Vienna was later formed into a separate Province. The elections resulted in a majority for the

In 1925 a new currency was introduced, the unit being the Austrian *schilling* (200 000 paper Crowns), the rate of exchange in Sept., 1929

Coalition Government under Dr. Schönerer (a

| | 1927 | 1928 |
|---------------------|-------------|-------------|
| Receipts | £37 600,000 | £40 700,000 |
| Current Expenditure | £34 400,000 | £36 800,000 |
| Working Surplus | £3 200,000 | £3 900,000 |
| Capital Expenditure | £25 700,000 | £26 100,000 |
| Deficit | £22 500,000 | £22 200,000 |

That part of the Capital Expenditure which exceeds the working surplus was paid for out of the resources of the League of Nations Loan

exceeded 2 500 000 of which over 700 000 were returned as killed. Under the *Treaty of Commerce*

| | 1927 | 1928 |
|---------------|-------------|-------------|
| Total Imports | £92 298,000 | £95 861,000 |

The Argent : e Debt

AUSTRIA

(Österreich)

President of the Federation (Dec 6 1948)

ter of French
29 Index
of the East

T tal

The total was divided 194 fol was —

Federal—

1. consolidated

Sep 05 02:56 952

Consolidate 1

Internet \$1 041 607 961

External 1 103 820,137

2 155 518 098

52 751 794 810

JOHN C. DE FILLIPS JR.

Seigl Walfare Dr Theodor Ignitzer

Agriculture and Forestry Florian F. Jermann

Commerce and Communications, Dr. M. W.

Hainisch

France Dr Otto Inck

Er ent 04 Dr Heinrich Srbik

The balance is provided

Total in parts (gold \$)

Total Exports

Exports to 1. A

In parts from 1 to 5

from 1 to the 11th the amount of

Hon. Sir M. A. Robertson :

1101
[1027]

Con. sell r. E. Mill n. l. 1 Drake (c)

Non Attaché Li Col P A

CELESTIAL

BRITISH CONSULAR OFFICE

B. eury. Aires—Cu and Ge anal. H. W. W.

С Н Е

Free Consultation A F YARR MC R

ΛΠΟΥ Λ Η Β Perkh's (act 17) = Γ

| Area sq. m. (ac.) | Perennial crops |
|----------------------|--------------------|
| 7 560 | 2 145.300 |
| 4 687 | 846.074 |
| 3 679 | 270.817 |
| 6 380 | 924.845 |
| 2 765 | 291.077 |
| 4 881 | 317.825 |
| 1 030 | 130.000 |
| 1 513 | 265.604 |
| 38 175 | 6 534.48 |

Calle Roca 1sta 46 Buenos Aires
Buenos Aires is 7160 miles from Southampton
transit 20 days

ARMENIA *See* **RUSSIA**

Under the Constitution the Bundestag and
Länderparlaments were constituted a government

..... was introduced there in 1871

ville on Lake Tanganyika (190 miles) to the West Coast of Africa with Africa and the East Coast Lukamba Railway (446 miles) of Belgian Railway system with flying on the Flyer (the river connecting with both the East and the West Coast) Lukamba Port-Francoise commenced in 1923 and possible to travel down to the river miles

the station at Mariaville 3
Hanan-Mariaville (32 miles)
the (1) 1924 of 1923
started on a new line of

and (1) 1924 of 1923
development of aerial
route

total over 6,000 miles
motor road is the (1) 1924

an estimated population of 28,543,000. The
 Republic derives its name from its creator
 Simon Bolivar. The official language is Portuguese.
 The chief cities are Rio de Janeiro, Sao Paulo,
 and Brasilia.

SEPARATE GOVERNMENT IN THE
 STATE OF RIO DE JANEIRO

Official language is Portuguese. The
 capital is Brasilia. The official language is
 Portuguese. The official language is Portuguese.

BRAZIL
 (Estados Unidos do Brasil)
 President (1961-1966) Gen. Humberto de Alencar
 Castello Branco. Vice President (1961-1966) Gen.
 Antonio Carlos de Figueiredo. Prime Minister
 (1961-1966) Gen. Humberto de Alencar Castello
 Branco. Minister of Defense (1961-1966) Gen.
 Humberto de Alencar Castello Branco. Minister
 of the Interior (1961-1966) Gen. Humberto de
 Alencar Castello Branco. Minister of Justice
 (1961-1966) Gen. Humberto de Alencar Castello
 Branco. Minister of Education (1961-1966) Gen.
 Humberto de Alencar Castello Branco. Minister
 of Health (1961-1966) Gen. Humberto de Alencar
 Castello Branco. Minister of Social Security
 (1961-1966) Gen. Humberto de Alencar Castello
 Branco. Minister of Labor (1961-1966) Gen.
 Humberto de Alencar Castello Branco. Minister
 of Agriculture (1961-1966) Gen. Humberto de
 Alencar Castello Branco. Minister of Industry
 (1961-1966) Gen. Humberto de Alencar Castello
 Branco. Minister of Commerce (1961-1966) Gen.
 Humberto de Alencar Castello Branco. Minister
 of Finance (1961-1966) Gen. Humberto de Alencar
 Castello Branco. Minister of Planning (1961-1966)
 Gen. Humberto de Alencar Castello Branco.

liners, oils, wraps and metal articles are being

BRITISH LOCATION

DIFFERENCE—Before the War of 1914 the Army was universal and on a peace footing it numbered 50,000, all ranks. During the War (Sept. 1918) about 550,000 men were in ranks of the Army. By the Peace Treaty the Bulgarian Army is limited to 20,000 ranks.

| Year | Imports | Exports | Total |
|------|---------------|-------------|---------------|
| 1914 | 552,241,382 | 355,225,620 | 907,466,002 |
| 1923 | 963,801,762 | 785,957,554 | 1,749,759,316 |
| 1924 | 1,118,440,783 | 847,757,004 | 1,966,197,787 |
| 1925 | 992,294,321 | 812,847,453 | 1,805,141,774 |
| 1926 | 812,853,874 | 807,755,813 | 1,620,609,687 |
| 1927 | 1,012,932,000 | 918,620,000 | 1,931,552,000 |

The import of Indian opium is now prohibited.

Foreign Trade 1927

Imports and Exports

| Country | Imports from | Exports to |
|---------------|--------------|-------------|
| Great Britain | 75,000,000 | 57,991,000 |
| India | 42,393,000 | 22,195,000 |
| Hong Kong | 122,593,000 | 169,680,000 |
| Malaya | 10,260,000 | 22,275,000 |
| France | 14,700,000 | 51,437,000 |
| Germany | 9,354,000 | 20,353,000 |
| Italy | 11,724,000 | 9,494,000 |
| Japan | 292,794,000 | 208,839,000 |
| U.S.A. | 4,674,000 | 786,000 |
| U.S.A. | 163,794,000 | 122,753,000 |

Customs duties on foreign goods—about 7,000,000 taels were open in Jan. 1927 in the case of the Manchurian goods, while 2,500,000 taels more are

BUDGET (July 1919–June 1920)

| | |
|---------------------------|-------------------|
| Ordinary Revenue | Taels 400,838,000 |
| Extraordinary Revenue | 80,581,785 |
| Total | 481,419,785 |
| Ordinary Expenditure | Taels 271,259,205 |
| Extraordinary Expenditure | 224,473,681 |
| Total | 495,732,886 |

Public Debt (Jan. 1920)

| | |
|-------------------|-------------|
| War Loan | £30,000,000 |
| Revenue Loan | 48,000,000 |
| Railway Loan | 40,000,000 |
| Consolidated Loan | 50,000,000 |
| Japanese Loan | 30,000,000 |
| Other Loans | 17,000,000 |

£115,000,000

About 10% of the population of the Republic

At the end of September 1922 according to the financial statement of the Ministry of Finance the total debt was taels 1,906,000,000 or less than 5 taels (11%) per head of the Chinese population. Included in the expenditure of 1919–20 is the sum of 214,000,000 taels to pay the interest of debt.

OUTLYING TERRITORIES

Known as the Western Central and Eastern

| 1907 | 1908 |
|---------------|-----------|
| \$115 765 863 | \$116 229 |
| 86 324 864 | 116 602 |
| £3 497 068 | £ — |
| 2 162 628 | — |

Population about 160,000. Centres are Metellin (85,000) Hueso Cartarena (68,000) Manizales (45,000).

h r/ nrl hnd yellow (tw
e others) the pl

BRITISH LITERATURE

[illegible]

country Minister Ilen put out a

L'Esprit E. St. J. D. J. Mons.

(with) [unclear] [unclear] [unclear]

JOHN M B K MC

C. Davies

1911 CIVILLAR OFFICER

Ученый **Д. О. Лаптев** и **М. В. К.**, **М. С.**

5 miles transit to Nicola 48 d r

COSTA RICA

COSTA RICA
= República de Costa Rica.)

8 1932). Clito Gonzalez Vique

May 8 1928.

For information, Roberto Smyth

and I have a lot of
other things to do.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

Minerals are emeralds, gold, silver, platinum, copper, iron, lead and coal. Petroleum is available in enormous quantities and in the year 1928 the Tropical Oil Co. (a subsidiary of

Supplies of the U. S.

499,638

523,605

3,600 miles of railroad are open and 2,500 miles of telegraph line, there are about 1,500 miles of roads.

Minister in London: Genor Dr Don Guillermo Patterson, Legation, 30 York Terrace, Regent's Park, N. W. 1.
 Counsellor of Legation, Dr Solar.
 3rd Secy, Genor Don Al.

Spanish is the language of the island.

| 1924-25 | 1925-26 |
|---------------|---------------|
| \$20,658,000 | \$20,658,000 |
| 80 per cent | 80 per cent |
| 82,411,000 | 82,411,000 |
| 22,411,000 | 22,411,000 |
| 1925. | 1926. |
| 297,344,447 | \$260,876,433 |
| 253,984,156 | 301,708,730 |
| 12,728,600 | 12,728,600 |
| 35,563,212 | 35,563,212 |
| Dec. 31, 1925 | Dec. 31, 1926 |
| 420 (141,455) | 420 (141,455) |
| 17,044, 811 | 17,044, 811 |

the out of the trial of the case

the out of the trial of the case

The coalition of Czech parliamentary parties,

| | 1918. |
|--------------------|-------------------|
| Total Imports | Kč 19,208 000 000 |
| Total Exports | 21,224 000 000 |
| Imports from U. K. | \$31 000 000 |
| Exports to U. K. | 25 000 000 |

Europe from the North Sea to the Black Sea.
The total length of the river is about 1,738 m.
and ocean-going vessels reach Braus where trans-shipment into river barges is necessary.

BRITISH LEGATION
(Hradbová ulice 12 Prague III.)

BRITISH CONSULAR OFFICES

BRITISH DANUBE COMMISSION
British Delegate, Col Sir John G. Beld
C.B. (Plenipotentiary Commissioner)

issue a son.
Heir Apparent H. R. H. Prince Frederik (son of
 Prince), 6 March 11 1899

CABINET (April 1929)

metres of railway and 14,408 miles of telegraph
 line

Education is free and compulsory, the schools
 being maintained by local taxation. Special
 schools are numerous for culture and agricul-
 ture predominating. The University is at
 Copenhagen

1927-28

1928-29

Foreign Extraordinary and Minister for London
 Count Preben F. Ahlefeldt Laurvig

CAPITAL, Copenhagen. Population (1925)
 587,000 (with suburbs 731,000). Other cities
 are Aarhus 76,225, Aalborg 41,819, Odense
 52,376, Horsens 28,215, and Randers 26,857

FLAG Red, with white cross

BRITISH LEGATION

(Bredgade 26 Copenhagen)

Envoy Extraordinary and Minister Plenipo-
tentary Sir Thomas Hohler KCMG CB

(1928) £4,660

and Secretary J. V. T. W. T. Peroune

Honorary Attaché Mr H. S. Nettleton

Commercial Secretary (Grade II) M. H.

Cassella

Naval Attaché Com. M. A. Hawes RN

Military Attaché Lt Col J. H. Marshall

Cornwall, C.B.A., DSO MC

Air Attaché Group Capt. M. G. Christie

A Kingdom of Northern Europe and the

In November 1927 the Swedish Metal Co.

Life

* A *Woff* is an inscription of
shall be to the effect of that it
is made *Woff* if it is not stated as
some charitable or religious object.
It is also used in the present
The Public Trustee



| | 1 0 0 0 |
|---------|-----------|
| 1924 25 | 7 273 974 |
| 1925 26 | 7 004 645 |
| 1926 27 | 7 652 189 |
| 1927 28 | 6 041 499 |

1 1/2
£ 59
43
20

interests, especially the Khân-el Khalili, the Hanzaï, and the Iraw Bazaar though the Minski, which leads to them, is fast losing its oriental character.

ALEXANDRIA (population 573,000), founded 332 B.C. by Alexander the Great, was for over 1000 years the capital of Egypt. Its great Pharos, lighthouse was one of the Seven Wonders of the World (see p. 89). It now contains two royal palaces—Ras-el Tin and Montaza, while almost the entire centre of

BRITISH CHAMBER OF COMMERCE OF EGYPT, 6 Rue de l'Abbaye Bourse, Alexandria, and 21, rue de la Chambre, Cairo.

CAIRO is 2500 miles from London; transit by rail 5 days, by sea 6 days.

ESTONIA

(Eesti Vabariik)

Head of the State M. Otto Stranbaum (1929)
 1st Regent 1918-19 M. Jaan Lattik

(1929)
 Viceroy Consul P. Cassar M.B.E.
 Vice-Consul, E. G. Lomas O.B.E.
 Vice-Consul, D. E. H. Rickell, E. A. Chapman Andrews
 Vice-Consul, Gabriel Fairwag M.B.E. M. W. Dawson
 Hon. Treasurer Dr. H. G. Pichler
 Vice-Consul, L. H. Hurst
 Vice-Consul, A. N. Williamson Napier
 U. J. M. Irving (acting) S. A. Eiskine M.P. (Acting)
 Vice-Consul Joseph W. Cassar M.B.E.

| | |
|--|--------------|
| Revenue | 1929-30 |
| Expenditure | £5,153,845 |
| External Debt (1927) — | 5,153,835 |
| International Debt (under League of Nations) | 1,540,000 |
| To Great Britain | 1,153,837 |
| To U.S.A. | \$15,807,852 |
| Exports | 1927 |
| Imports | 1928 |
| | £5,640,000 |
| | 5,140,000 |
| | £6,984,000 |
| | 7,218,000 |

Imports and Exports, 1928
(In millions of Francs)

| To France from | | From France |
|-------------------|---------------|-------------|
| 5,447 | Great Britain | 8,166 |
| 2,047 | Algeria | 1,145 |
| 3,827 | Belgium | 7,241 |
| 1,162 | Brazil | 563 |
| 4,961 | Germany | 5,669 |
| 1,376 | Italy | 2,150 |
| 1,623 | Siam | 1,753 |
| 965 | Switzerland | 3,378 |
| 6,200 | U.S.A. | 3,331 |

BRITISH EMBASSY

Press Attaché Sir G. Mendel

GERMANY

an estimated area of 924,160 sq
 population of about 450,000. Pro-
 for at 17 on consists of the 17c

each of country is approximately

and telephone varied to franc 130 two hundred and thirtieth

| | | | | |
|---|--------|------------|---------------------------------|--------------|
| 1926 | 49,470 | 18,906,243 | General Administration Budget — | 2,000,000 |
| 1927 | 51,432 | 20,880,625 | | Revised 1927 |
| 1928 | 54,102 | 23,308,311 | Ordinary revenue | 9,920 |
| FINANCE—Under Articles 248 and 253 of the | | | Ordinary expenditure | 9,920 |
| | | | Expenditure on the | 0 |

WÜRTTEMBERG

Oldenburg, on the North Sea, between the estuary of the Weser (at Bremen) and the Prussian province of Hanover, has detached territories in Lübeck (between Holstein and

out. Spelt wheat rye oats barley hemp hops
potatoes beans maize and turnips are the

powder firearms
pianos clocks &c
are also many
distilleries. In
cattle wool
clocks salt oil
and linen fabrics

Reichsmarks. Schaumburg-Lippe, 130 square miles, pop.

bury on the North Sea between the
 of the Weser (at Bremen) and the
 province of Hanover has detached
 es in Lübeck (between Holstein and
 bers) and Bückeburg (Prussia Province of

1818 pop (1925) 166 023
 6 172)

is between Mecklenburg
 and Rostock has a
 are miles with a population
 of industries are agriculture
 Capital Neustrelitz pop

1818 pop (1925) 12 332

Trade with Great Britain

Exports to U.K. Britain 59 624 619

TRUSSIA

DAVARIA

situated between 49° 16' - 50° 34' N

12

1984-1985

9.000

10

Lodgholders who acquired later will receive $\frac{1}{2}$ per cent, but this will bear no interest until separations are paid

German Foreign Trade

Total Imports (mill. Reichmks) ¹⁹²⁷ 24 381
Total Exports (mill. Reichmks) 20 240

Trade with Great Britain

Imports from Gt Britain ¹⁹²⁷ £69 415,000 £ ¹⁹²⁸
Exports to Gt. Britain 59 824 610

GERMAN FEDERATED STATES.

PRUSSIA

GOVERNMENT (April, 1925)

Berlin with a population on June 1924 of 4 023 588.

Capital sitting area 61 sq. m. on the Labe

BAVARIA

Minister President, Dr. Held.

The Republic of Bavaria is divided into unequal parts. The eastern portion, comprising eleven twelfths of the whole, is situated between 47° 15'—50° 34' N. lat. & 11° 01'—17° 40' E. long., the western part, being

Oldenburg on the North Sea between the
estuary of the Weser (at Bremen) and the

| | 1926-27 | 1927-28. |
|--------------------|-----------|-----------|
| Exports | 3 509 253 | 4 628 547 |
| Imports | 2 126 080 | 2 514 719 |
| Imports from U. K. | 149 607 | 150 000 |
| Export to U. K. | 427 097 | 523 337 |

For 10 percent of the total value with
U. S. A. American and British for at 1000

per cent (a b c)
Capital 1 000 000 1921 40 000 In

For 100 000 1921 40 000 In
10 000 1921 40 000 In

Flag The flag is white with
blue (with a blue triangle)

Language HUNGARIAN
From 1920 to 1921 the language of

and (Hungarian) HUNGARIAN
(Hungarian) HUNGARIAN

Language HUNGARIAN
The language of the country is

Language HUNGARIAN
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Paris
On March 2 1920 Alfréd Reichle von

Horthy of Nagykanizsa was elected Governor of
Hungary by the National Assembly

which gave him so-called rights with certain
restrictions

In 1921 the exiling Karl made two efforts to
regain the throne but failed

March 26 1921 He fled from Austria until

March 26 1921 He fled from Austria until

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March 26 1921 He fled from Austria until

The Republic of Haiti is the western or French portion of the island of San Domingo which next to Cuba is the largest of the West India Islands.

HEJAZ and Arabia

HONDURAS

(Republica de Honduras)

PLATE TWO: six nobles in blue and
 LANTERN (ON CLAP OFFSETS
 Plate carrier, 1 in a Prince)

Its natural wealth is great. In 1927 the
1-43341 in street of railway open at the
Cant. The lat. 22° of the country is 74

Director of Railways, Lt Col J R Talbot

C.R.F., V.D.

Air Officer Commanding, Air Vice Marshal

Robert Brooke Popham

D.S.O., A.F.C.

Commandant Iraq Levies

Howe C.M.G. D.S.O.

BRITISH CONSULS

Bagdad—Consul General

Phyllis

Consul Charles

Basra—Consul Gerald H. Sel

Basra—Vice Consul (The

Abad in holds the rank of A

BRITISH CONSULS OF

Basra—Consul R. M. Booth

CAPITAL Baghdad

Laghdia is 840 miles by air

Mails between London and

sent by weekly Air Mail Ser

Heliopolis—Fakhri—Amman

Ramath with a system of

transit over the total serv

services run twice weekly bet

Damascus—Teleut Haina and

overland Mail Service

ITALY.

on 1st Jan 1924

President of the Italian

King

Justice, Mr Alfredo

Finance and Treasury

Italian unity was an

issue of Italy, after

economic development and functioning of the country

penditure for 1929-30 being 200 million lire, which 60 million is for Civil Aviation.

Part with few about and is largely exported. The situation of the silk industry is an important industry. An important principal

technical and schools are increasing in number. Several of the Universities are of very high reputation.

a large number of units and services e.g., Cavalry, Bersaieri, Alitalia Tanks &c are not

(24 Via Ventiseptembre Rome)
is Ambassador Extraordinary and Plenipotentiary His Excellency the Rt Hon Sir Donald Graham GCMG, GCVO, CB. (1921)
 Counsellor, *per litteras* £1



Assembly (Séim) elected by universal adult suffrage the Executive being entrusted to a council of ministers.

The chief industries are agriculture and forestry the chief products of the Republic being rye wheat barley oats and potatoes the exports are flat iron seed timmer and dairy produce the chief imports are textiles sugar herrings and machinery

| Revenue | 1927 | 1928 |
|---------|---------------|---------------|
| F | £ 270 528 800 | £ 276 319 800 |
| In | " | " |
| E | " | " |
| In | " | " |
| E | " | " |

on line 1927 (15 000) 1928 " 15 000

FLAG Three horizontal bands yellow red green.

BRITISH LEGATION

British Envoy Extraordinary and
Plenipotentiary to Latvia Lithuania
Estonia Joseph Addison
Riga, Latvia.
and Secretary E. A. Walker

BRITISH CONSULAR OFFICES

Luxemburg—Consul N. le Gallala.

Pro-Consul, Victor Flienne

MEXICO

(Estados Unidos Mexicanos)

Provisional President, Portes Gil sworn in office
Dec 1 1928.

CABINET

Minister of the Interior F. Canales

Mexico occupies the southern part of the

is as to be sold to suit. self in July. But the danger was averted. The summer the autumn motor went up, and soft goods the exports being grain, pig, eggs, hides and skins and wool. The French protectorate which is closely allied to the Tupper zone is the Tupper zone.

Queen Mother Emma Princess of Waldeck and Pyrmont born August 1858 married late King of Spain

Prince of Waldeck and Pyrmont
J
T

Minister—Vice Consul
Chief—Vice Consul H P
Minister—Consul-General
CMG
Vice Consul T C
Chief—Vice Consul G M
7—Consul A P
Vice Consul A
Chief—Vice Consul

BRITISH CHAMBER OF COMMERCE AND SPANISH CONSUL General

BRITISH CHAMBER OF COMMERCE (Casablanca)

Minister is distant from the city

HAJAZ and HEJAZ in Arabia

Consulate The total is about 150 miles

Larson and the

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NICARAGUA

(República de Nicaragua)

President (1929-1933) Gen. José María

Vizcarra 1934-1939

Min. of Int. Affairs Don Eliardo

Porfirio A. Moraga, E.C.A.

Co. of Int. Affairs F. Batres Arzu

16 W. 11th St. N. E.C.A.

BRITISH LEGATION

Foreign Extraordinary Minister Plenipotentiary

and Counselor (see list at Guatemala)

H. A. Grant Watson (1928).

BRITISH CONSUL'S OFFICE

Distance 5800 miles transit 30 days

NORWAY

(Norge)

Note to U.S. Nicaragua was discovered by Columbus

CABINET (Feb. 15, 1928)

Prime Minister and Minister for Foreign Affairs

J. I. Mowinckel

R. A. S. P. H. A.

years

and work is now in progress

Defence—The Home Forces consist of a conscript army with a universal levy of 19500 men providing a first-line army of 270000 or (including reserves) 350000 all ranks. The Royal Navy consists of 21 protected and 58 unprotected vessels.

Litigation—Private State aided primary instruction is encouraged rather than though the latter is provided if regular local taxation. The average attendance in primary schools is 96 per cent.

Surabaya (Java)—Vice Consul H. Levinge
Surabaya (Java)—Vice Consul C. J. W. Cruden.

Pro-Consul C. N. Howard.
Surabaya (Java)—Consul J. D. Hoger.

Pro-Consul H. D. Pittelston
(Sumatra)—Consul H. Pittelston.

Pro-Consul J. Morton.

Pro-Consul James A. Blard.

Surabaya—Consul E. Erskine.

Pro-Consul J. D. C. Wilton. L. Garre
(act ng) C. L. Butler (act ng) Fredrik
W. Greenwell.

Pro-Consul William E. L. Neuenhuyse.

| | |
|--------------------------|-------------------------|
| Revenue (Budget) | 1932. fl 648 892 000 |
| Expenditure (Budget) | 708 735 000 |
| Public Debt (1928) — | |
| Interest bearing, Funded | fl 239 072 000 |
| Non-interest bearing | 257 000 000 |

Transit 81014

NETHERLANDS COLONIES

TOTAL AREA 832 473 square miles.

POPULATION (1920) 49 514 038.

OMAN *see* Arabia.

PANAMA

(Republica de Panama.)

President (1928-1932), Señor Don Floriano
Herrera Arosemena assumed office 11 1928.

MINISTRY (1928-1928)

Secretary of the Interior, Señor Don
Señor Don Adrián Roldán
Foreign Affairs, Señor Don J. P. Arosemena.

Minister of the Interior, Señor Don
Concepción B. Saura

His Holiness Pope
Pius XI (41) elected at the Vatican
March 30 1927 elected Pope in succession to
Benedict XV Feb 6 1922

ster Pio
Clifton

navies and a comparison. The battle strength is about 20,000 all ranks. In the time of war all males between the ages of 18 and 45 are liable for service. The Navy consists of 4 included 25 torpedo boats, 3 destroyers, 20 submarines and several minelayers. There are 56 seaplanes and aeroplanes.

Education is compulsory and free between the ages of 7 and 14, schools being maintained by local taxation with State grants in aid. The

students

Tromsø—Vice-Consul H. Wash and
Bergen—Consul J. P. MacGregor
 Vice-Consul Einar Gran
Ålesund—Vice-Consul Otto Tyrhøj
Christiansund—Consul C. J. C. Loennechen
Haugesund—Vice-Consul Heiberg
Haugesund—Vice-Consul, Jodannas

Oslo
Lofoten (Svolvær)—Vice-Consul G. Berg
Vardø—Vice-Consul J. N. Aagaard M.B.E.
Stamnes—Vice-Consul T. D. Spence
Tromsø—Vice-Consul P. L. Nielsen
Tromsø—Vice-Consul A. S. Sævi
Tromsø—Vice-Consul P. Hjeltnes, O.B.E.

Oslo
Vardø—Vice-Consul Karl E. M. Møller
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 hours.

SYALBARD

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BRITISH LEGATION

The revenue is derived from salt tax and
land custom plus a 10 per cent while the

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Mukammerah—1—Cons, (H. Lincoln O B

Foreign Countries—Paraguay, Persia.

Revenue (Estimate)
 Expenditure (do.)
 Foreign Debt (Nov 3)
 Internal Debt (do.)
 Imports
 Exports

£1 037 355 261 104 970

Area
 Soil
 The
 Elevation
 Climate
 Population
 1,000,000
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 There are 48 salt
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 Iran, Meshed, Mash
 and Tehran, Bushir
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 is are cereals, cotton, gum
 tobacco and opium. It
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 phur, &c., with turquoise
 Persia have been su
 by an English company
 only important manu

Defence—The Army is recruited by voluntary enlistment.

Consul General, Kazimierz Komierowski.

—Joseph Pyle.

PERSON.
Messrs L. Wilson

Defence.—Service in the militia is universal and compulsory. The peace effective is about 22,000.

Porto & not a—A Co sul A Seymour All for 1

| | |
|-------------------------|-------------|
| Revenue (estimated) | £20,334,330 |
| Expenditure (estimated) | £20,742,547 |
| Fluctuating Debt | |
| External debt (1928) | |
| Internal debt (1926) | \$4,300,000 |

10-10-11 Eric Basto

| | | | |
|-------------------|------|-------------|-------------|
| Imports | 1925 | £26,854,445 | £19,730,767 |
| Exports | 1925 | 10,705,783 | 5,125,853 |
| Imports from U.K. | | 5,739,995 | 6,890,810 |
| Exports to U.K. | | 2,179,125 | 2,100,140 |

LITHUANIA CHAIRMAN OF THE PORTUGAL
4 Rua Vitor Goida, Lisbon (Brazilians at
15 Rua Costa Santos, Oporto and St. Rua 15
Avenida da Republica)

CAPITAL. Lisbon. Population (1927), 743,496.
Oporto had a population (1927) of 702,166.

Lisbon distance 1,100 miles transit colonies

Flag. Green and red, with arms in centre.



population of 1918 an army of 400,000 was

Education is free and compulsory in primary schools there being 19,374 schools with 1,624,763 in attendance. Secondary schools are well attended. There are also special schools and Universities at Bucharest, Jassy, Cluj and Constanta. A Government High School of Commerce was opened in 1913.

COMMUNICATION. In 1928 there were about 6,000 miles of railway. Communication in the whole kind of railway communication requires great development in order to cope with the problem of carrying the cereal crops to the shipping ports. There are 23,000 telegraphs and telephones. The mail service consists of about 100 steamers and 600 sailing vessels. The Black Sea ports are Odessa and Constantza. The latter is linked with the interior by a railway.

| | 1929 | 1928 |
|-------------------------|-----------------|----------------|
| Budget revenue | 37,700,000,000 | |
| Expenditure | 37,700,000,000 | |
| Public debt Dec 31 1928 | 190,834,644,425 | |
| Imports | 33,428,546,982 | 32,145,201,188 |
| Exports | 37,703,177,742 | 26,919,256,573 |
| Imports from U.K. | £2,782,215 | £3,060,965 |
| Exports to U.K. | 2,407,609 | 2,760,871 |

| | 1928 | 1927 |
|-------------------------------------|----------|-----------|
| CAPITAL, Bucharest, on the Danubius | with 921 | with 1001 |
| | 1011 | 1011 |
| | 1011 | 1011 |
| | 1011 | 1011 |
| | 1011 | 1011 |
| | 1011 | 1011 |
| | 1011 | 1011 |
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| | 1011 | 1011 |
| | 1011 | 1011 |

FLAG Three vertical bands blue yellow red
BRITISH LEGATION

RUSSIAN UNION

Союз Советских Социалистических Республик
Union of Socialist Soviet Republics

President of the Council of Peoples Commissaries (Soviet Narodnykh Komissarov)
Sverdlov Alexei Ivanovich Feb assumed office 1924

Vice President V. V. Schmidt V. D. Orlov
Lashvili J. E. Rudzutak

People's Commissaries

War and Marine K. E. Voroshilov

Foreign Affairs I. I. Tschitcherlin

Trade L. K. A. I. Mikoyan

Transport J. L. Rudzutak

Posts and Telegraphs V. K. Antipoff

Chairman Supreme Economic Council V. Kuyshteff

Finance B. P. Litvinchikoff

Labor V. V. Shmidt

Workers and Peasants Inspection M. I. Orlovich

Director Central Statistical Dept V. P. Milutin

Charge d'Affaires of the Union of Socialist Soviet Republics in Great Britain (with drawing)

Address of Embassy, 10, Grosvenor House, M. W. 2

Consul General of Embassy

Naval Attache

Commercial Attache

BRITISH MINE IN THE SOVIET UNION
(Lithuania, Kovkovo 45, Moscow)

Charge d'Affaires (withdrawing)

3rd Secretary

Commercial Secretary (Grade I)

BRITISH CONSULAR OFFICIALS

Major Vice Consul

1st Grade—Consul

1st Grade—Consul

1st Grade—Consul

The Union of Socialist Soviet Republics
which covers the greater part of the area of

BRITISH CHAMBER OF COMMERCE, Bucharest

Established March 1900, at 11, 12, 13, 14

VI Mongolia

112, 113

Corresponding Commissariats of the
 Republics

| | |
|-----|----------------------------------|
| 1 | 7 734 523.00 |
| | 273 800.00 |
| | 850 742.00 |
| | 79 213.00 |
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| --- | 1 055 763.00 |
| .. | 293 000.00 |
| .. | 50 000.00 |
| | ref. in Del. of Fin. (evolution) |

Frar

Since the revolution various internal loans have been raised and these were stated to

| Exports (r. m.) Russia to | Countries | Imports in r. Russia from |
|------------------------------|----------------|------------------------------|
| 13 200 000 | Australia | 15 600 000 |
| 2 200 000 | Belgium | 1 100 000 |
| 9 900 000 | Czechoslovakia | 10 800 000 |
| 5 900 000 | Denmark | 1 000 000 |
| 6 900 000 | Egypt | 24 800 000 |
| 10 500 000 | Estonia | 3 600 000 |
| 54 100 000 | Finland | 17 700 000 |
| 167 300 000 | France | 21 700 000 |
| 197 500 000 | Germany | 157 700 000 |
| 37 700 000 | Great Britain | 97 100 000 |
| 57 400 000 | Italy | 1 200 000 |
| 23 200 000 | Latvia | 1 600 000 |
| 19 500 000 | Netherlands | 4 900 000 |
| 6 200 000 | Poland | 13 100 000 |
| 17 300 000 | Switzerland | 11,800 000 |
| 678 200 000 | U. S. A. | 143 000 000 |
| | Total | 623 200 000 |

Agriculture.—The total area under cultivation in 1926 was officially stated at 107 172 000

Millet
Buckwheat

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18 9
22 4

19 4
20 4

Great Britain 7 000
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Sweden 120 1 and steel prod de
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and U. S. A. Austria
France Switzerland
and Great Britain
Great Britain and Ger
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and 12 100
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Novgorod—

comes to try it with Khaterovsk
the Trans-herian in it is not
western and eastern in it is not

Capital—On March 14, 1938 the seat of

Pacific

5 years.

SAN DOMINGO See Dominican Republic.

SAN MARINO.

Regents Two "Captains Regent."
Consul-General for San Marino in Genoa Dr. C.
 Orsini. *Minister* A. Jamboni. P.E.S., 47
 Pall Mall, W. 1.
Free-Consul Giovanni Serrani.
 A small Republic in the hills near Lodi.

the population is about 2,000. The city of San Marino (pop. 2,000) occupies the slope of Mount Titano and has an impregnable castle, where King Frederick II. was crowned in 1212. In 1806, after the French invasion, the city was destroyed and the population was reduced to 1,000. The city was rebuilt and the population increased to 2,000. The city is a fine example of a small Republic.

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| | |
|--------------------------|-----------|
| Revenue | £ 380,000 |
| Expenditure | £ 380,000 |
| Funded Debt (1927) | £ 60,000 |
| Floating Debt (1927) | |
| Imports (1927) | |
| Exports (1927) | |
| Imports from U.K. (1928) | |
| Exports to U.K. (1928) | |

CAPITAL, San Salvador. Pop. 100,000. Other towns are Santa Ana (70,000), San Miguel (60,000), San Vicente (30,000), Nueva San Salvador (20,000), Santa Tecla (20,000).

Flag—Three horizontal bands, light blue, white, light blue.

BRITISH LEGATION
 British Minister (see Guatemala)

At the capital the population will be called upon to decide by a vote whether the government under which they are now living is to be continued or not.

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SIAM.

King, Prajadhipok, born Nov. 2, 1892, succeeded Nov. 26, 1925.
 Former Minister, B. H. Prince Trailok.

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 Former Minister, B. H. Prince Trailok.

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339 c n t r l s t a t i o n s a d 2 942 r a i l r o a d a d 2 609
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as no date 554 640 miles of the e l o n e wires
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22 l e n e i r o n l a s w i t h s i a n e a n d t n o
t r e n l a h p e d e

SWITZERLAND
(Schweizerische Eidgenossenschaft.)

u ports h s 584 304 000 h r 707 890 576
Exports 2 6 6 583 000 2 574 663 692
Imports from I A 264 232 000 273 617 000
Exports to I A 452 712 000 399 851 000
C u s t o m s S t o c k h o l m P p (I n n 31 1928)
174 004. Other large towns are t o t h e n b r d
1935-994. Mal w (118 535) a d N o r k o p E
(62 134)
FLAO L i e w i t h y e l l w e m e s.

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A B e l r a f f

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An

| | |
|-----------------------------------|---------------------------|
| Imports from France gold & silver | 198,555,577 |
| Imports from Italy | 134,816,191 |
| Imports from Italy | 116,899,239 |
| Bank of Constantinople | 1,000,000,000 |
| President of the Republic | Mr. Mustafa Kemal Atatürk |
| Chief of the Executive | Mr. Mustafa Kemal Atatürk |
| Taj Mahal | |

| | |
|-----------------------------------|---------------------------|
| Imports from France gold & silver | 198,555,577 |
| Imports from Italy | 134,816,191 |
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| Bank of Constantinople | 1,000,000,000 |
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| Chief of the Executive | Mr. Mustafa Kemal Atatürk |
| Taj Mahal | |

TURKEY

(Turkey Cumhuriyeti)

President of the Republic: Mustafa Kemal Atatürk
 (The President of the Republic) Mustafa Kemal Atatürk
 1924 to 1938
 Nov. 1, 1927

MINISTRY OF THE INTERIOR

Minister of the Interior: Mustafa Kemal Atatürk

Prime Minister: Mustafa Kemal Atatürk
 Minister of the Interior: Mustafa Kemal Atatürk
 National Assembly: Mustafa Kemal Atatürk
 President of the Republic: Mustafa Kemal Atatürk
 Justice Minister: Mustafa Kemal Atatürk
 Finance Minister: Mustafa Kemal Atatürk
 Public Works Minister: Mustafa Kemal Atatürk
 Public Health Minister: Mustafa Kemal Atatürk
 Foreign Affairs Minister: Mustafa Kemal Atatürk

President of the National Assembly: Mustafa Kemal Atatürk
 1st Vice-President: Mustafa Kemal Atatürk
 2nd Vice-President: Mustafa Kemal Atatürk
 3rd Vice-President: Mustafa Kemal Atatürk

Turkish Ambassador in London: Mustafa Kemal Atatürk
 Ahmet Rıza Bey, 69 Portland Place, W. 1
 Counselor of Embassy: Mehmet Ali Serik Bey
 1st Secretary: Berhan Kemal Bey
 2nd Secretary: Orhan Tahsin Bey
 3rd Secretary: Mehmet Tahir Bey
 Consul in London: Ibrahim Halil Bey
 Consul General in London: Mehmet Tahir Bey

The Ottoman Turks are derived from Central Asian tribes, who were converted to the Mohammedan faith in the seventh century. These Mohammedan tribes attacked and conquered the Asiatic Provinces of the Byzantine (Eastern Roman) Empire and by the middle of the fourteenth century they had spread from the Black Sea into the East. In 1453, they captured Constantinople and spread over

the whole of the country from Turkish rule in the sixteenth century the surviving remnants of the empire, with the exception of Tripoli, were away from their suzerainty or were occupied by other Powers and in the latter part of the century the northern states of the Balkan Peninsula asserted their independence as guarantees of the Christian Powers. The emergence of these political upheavals was a demand for better government in the central and southern parts of the Sultan. During the period of constitutional reforms, which drove the Sultan Abdul Hamid II (1876-1909) from the throne, war broke out between Italy and Turkey. Tripoli and Benghazi were ceded to Italy by the Treaty of Lausanne (Oct. 24, 1912). The events were followed in the autumn of 1912 by the early months of 1913 by a disastrous war with the states of the Balkan League (Bulgaria, Macedonia, Serbia and Greece). At the outbreak of hostilities the European dominions of Turkey extended westwards to the Adriatic and eastwards to the Black Sea. Austria, Germany, Italy, France and Greece were allies. By the Treaty of Lausanne (1913) the north western boundary of Turkey was a line drawn from Erzurum, on the Adriatic coast, to Midia, on the Black Sea, excluding Adrianople, which had capitulated (after a long siege) to the Bulgarian forces. The outbreak of the second Balkan war, in which Serbia and Greece were allies against Bulgaria, Turkey recovered a part of the Black Sea coast. In the great war of 1914-1918, Turkey threw in her lot with the Central Powers. Her unsuccessful attacks on Egypt and Mesopotamia (Great Britain sent an expedition to Mesopotamia (which was withdrawn) and to Mesopotamia and Palestine, which removed the countries and Syria from Turkish rule. Various tribal revolts in Arabia ended in Turkish supremacy in that peninsula. In 1918 Turkey surrendered unconditionally before the conquests of the Allies and the Arabian allies. The final peace settlement of Turkey was the subject of protracted negotiations. The first definite proposals were embodied in the Treaty of Sèvres, which was signed on Aug. 10, 1920, but was never ratified. The rise of the Turkish Nationalist movement in Asia Minor, which brought into existence the Turkish Government at Ankara, and the defeat of the Greek armies in August-September 1922, finally destroyed any possibility of the Treaty of Sèvres being brought into force.

Treaty of Lausanne—As a result of the Peace Conference which met at Lausanne from November 1922 until February 1923 and again from April to July 1923 a treaty was signed on July 24, 1923. This treaty was almost immediately ratified by Turkey and came into force as between Great Britain and Turkey on Aug. 6, 1924. The main provisions of the treaty and various instruments annexed to it were that Turkey retained Eastern Thrace, including Adrianople, while ceding Syria, Palestine, Mesopotamia and the rest of the northern boundary of Mesopotamia was settled by negotiation with the League of Nations. In the event a settlement was not reached until June 6, 1925, when the Treaty of Ankara by which Turkish rule was

1st Secretary Dr. Don Elberto E. MacEslon.
 Consul General. Ex. 344 345. Connection
 11 ns. 4 Lloyd's Avenue E. 13.
 The consul at Republic. 11 ns. 4 Lloyd's Avenue E. 13.

1st tel. 11 ns. There are 995 post offices des-
 11 ns. 4 Lloyd's Avenue E. 13. 11 ns. 4 Lloyd's Avenue E. 13. 11 ns. 4 Lloyd's Avenue E. 13.

| | | |
|-------------|--------------|--------------|
| Revenue | 1927-28 | 1928-29. |
| Expenditure | \$51,820,577 | \$58,041,562 |
| Total | \$2,082,757 | \$2,547,252 |

Total 11 ns. (June 30)

unchanged

The Eastern Andes from the south west cross the Caribbean Coast

In operation. Spanish is the language of the country

| 1895-96. | 1901-02. |
|----------|------------|
| 5,761 | £7,780,000 |
| 10,124 | 7,780,000 |
| — | 3,750,000 |
| 2,920 | 9,085,007 |
| 6,390 | 11,000,521 |
| 10,500 | 8,100,245 |
| 8,908 | 318,700 |

1895-96. = £ sterling
 11 (1905) 125,253
 11 (1905) 125,253

14, yellow blue
 (see 1895)

11, (Carnegie)
 11, (Piem)
 11, (Piem)
 11, (Piem)
 11, (Piem)

PRICES

11, 11, 11, 11, 11

in 1912.
[read]

Italian Somaliland
Tripoli

possesses an important library, containing about
300

EUROPEAN CAPITALS

Distance from London and from each other

| | |
|-----------|-----|
| London | 5 |
| Liverpool | 2 |
| Paris | 3 |
| Madrid | 4 |
| Batavia | 5 |
| Manila | 6 |
| Cebu | 7 |
| Yokohama | 8 |
| Kobe | 9 |
| Shanghai | 10 |
| Hankow | 11 |
| Peking | 12 |
| Tientsin | 13 |
| Harbin | 14 |
| Manchuria | 15 |
| Amoy | 16 |
| Singapore | 17 |
| Batavia | 18 |
| Calcutta | 19 |
| Rangoon | 20 |
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| Madras | 94 |
| Calcutta | 95 |
| Bombay | 96 |
| Madras | 97 |
| Calcutta | 98 |
| Bombay | 99 |
| Madras | 100 |

... control of hops
... had a member-

22 437 members, and capital (including loans and reserves) amounting to £11,250,000. Receipts by these societies aggregated £64,700 and resulted in a net profit of £57,600 after meeting share interest charges amounting to £2,000. A number of the societies have received state

... mention
Village Trust
... of similar
... of
In the latter
by the Great
... 1000 slaves were
... including
... Mention
... such as those in
... have recently
of some property

... A number of
... building or mortgage
... auxiliaries to their trade
... are making headway in
... co-operative stores in the North
... that it has advanced in all

... £2,770,000 to 22,800 of its members to
... them in house purchase while up to the
... of 1927 the capital expenditure in the
... of housing accommodation by one of
... large co-operative stores operating in ... with
... approximately £800,000

... Co-operation in ... Working
... men's clubs are registered under either the
... Friendly Societies Acts or the Industrial and
... Provident Societies Acts. Most of the latter
... clubs were registered under the former Acts
... but since 1920 a large number of clubs per
... ticularly those composed of ex-service men have
... istered as Industrial and Provident

... In the two classes of Acts there
... 115 clubs at the end of 1927 and they had
... 22,300 members. The income of these
... is mainly derived from sales of re-
... amounted to £10,307,000
... per member per week
... and fittings owned by
... £1,200,000.

... societies in 1927
... investments valued at £6,972,000 and 11,000
... £6,397,000 whilst ... of 1927
... investments valued at £452,000 and paid up to
... the value of £1,420,000

... The following
... Co-operation in ... and growth of the

1914
1920
1923
1927

... up

... of facts are

... all times and

... 43

... India

which 80
members

(3)

GREYHOUND RACING

the hardened offender were always the product of a depraved society would probably be by merely repressive tendency is, however, punishment at the crime, and removal of the cause taken in those

It directed towards the becoming irreclaimable.

PROGRESS

High Russian Society
more than £1,000

| New Built Houses at Solihull | | | |
|---------------------------------|--------|---------|-------|
| Year | Number | Value | Total |
| 1911 | 30,000 | £10,000 | |
| 1912 | 52,749 | £18,730 | |
| 1913 | 78,032 | £28,401 | |
| 1914 | 69,820 | £25,880 | |
| 1915 | 66,437 | £24,420 | |
| 1916 | 63,856 | £23,600 | |
| 1917 | 60,172 | £22,444 | |
| 1918 | 64,711 | £24,400 | |
| Grand Total | | | |
| 1,000,000 | | | |
| To be built | | | |
| 1,000,000 | | | |
| Total | | | |
| 2,000,000 | | | |

all receive similar treatment in infectious cases. Although the proposal has received a measure of support, many of the workers and the

GREYHOUND TRACK RACING

the hardened offender were always the product of moral perversity, society would probably

the hardened offender were always the product of moral perversity, society would probably

eroried n 1926 was 14 930 1927 at 660 A. H. H. sh

INTER PARLIAMENTARY COMMERCIAL
CONFERENCE

THE RADIIUM COMMISSION

AN important step to ensure that a
radium should be available for use in case
such treatment is desirable was taken
formation of a Radium Commission

Mr. J. J. [illegible] at a [illegible]

| | Disputes in Progress | Workpeople Involved (in 1000s) | Days Lost | 6 discontinuation of Labour Peace Conference |
|-------------------|----------------------|--------------------------------|-----------|--|
| 1913 (whole year) | 1 459 | 664 | | |
| 1919 | 1 352 | 2 591 | | |
| 1925 | 603 | 441 | | |
| 1926 | 323 | 2 734 | | |
| 1927 | 308 | 108 | | |
| 1928 | 302 | 124 | | |
| Jan 1929 | 28 (21 N) | 10 | | |
| Feb | 24 (15 N) | 9 | | |
| Mar | 40 (28 N) | 19 | | |
| April | 53 (37 N) | 23 | | |
| May | 49 (32 N) | 17 | | |
| June | 40 (25 N) | 16 | | |
| July | 34 (20 N) | 367 | | |

Society had a very interesting time that the afternoon was very pleasant.

TRADE DATA
 Chief industries are represented by following
 figures as at end of 1927

| Group | Colons |
|-------------|--------|
| Mining | 250 |
| Metals | |
| Engineering | |

610 407

UNEMPLOYMENT RELIEF

— does not seem to lack any definite policy

Commons in December, 1928, "work well"

passed by the Senate at 10 o'clock on the 11th of the month. The House passed the bill on the 12th of the month. The bill was then sent to the President for his signature. The President signed the bill on the 13th of the month. The bill then became law.

THE YEARS WEATHER*

The Year's Weather.

normal in the south and
of England
and Ireland
with west of
Scotland and
south of the
Shetland Isles
reported at
the
ture of
rainfall
Scotland
chiefly
central
August
during
Scotland
and the
normal
above
in the
continued
drier wet
of
on
uly
The
eis
s in
as a
1881
1882

below
the
e
the
were
ature was very low, with da
t exceeding 32° for seven
ria. At Lough L. it remained a
consecutive days

although unevenly distributed among her

and several places had less than 60 per cent. of wettest August for at least 29 years the total

STORMS AND FLOODS IN 1928 29

(1928) October 2-4 1 rth west gale 11 and 12000 people were killed Heavy snow fell
at 63 miles an hour swept New South Wales, in Victoria 10000 men and women were
killed
killed 2

BRITISH ASSOCIATION.—The ninety-seventh

and that the balance of power in peace and war
must reside in the hands of the world and
must not be the prerogative of the
Western Empire and North America and Japan

[the tele type

of the new j. which j. and the result]

YARDAMP IGNITED BY FALLING ROCK.—A number of examples are on record in which the loss in the sparks evolved by falling rocks appeared to be the only possible explanation of

10011 ROAD BRICK and Anderson acting on the Ministry of Transport as to the possibility of a birth of North. They

... motion in r and its lowest point

FOUCAULT'S PENDULUM—The Foucault pen | stepped were destroyed, news and
cl they were not washed together, or packed

over the American Fall to such an extent as to impair the beauty of the Falls as a whole. It is believed by the Board that it will be possible to distribute water so as to cover the bare flanks

who might have shot him by an Order in Council of the New Zealand Government and later by a clause in the Fisheries Regulations. Jack used to meet every vessel on the Nelson Wellington

SARAPA TURNER INT A FA Hec n t STARLIN S IN TRY UNIT SEATY —The

metres long and the
The 100 is electric

AYS AND MANUSCRIPTS —
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ried the ro el
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skeletons belong
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reland or any part
represented
sh elk) reindeer
cat stout Irish
and Arel c
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ent or loss
a (out neutral)

WIRELESS WAVES IN THE MAMMOTH CAVE —
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been carried on by

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approached
the same
curkcrew
Next night
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stat of P per in Star
of 250

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the ground
thousand feet
approached
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curkcrew
Next night
a and speech

also a 110 ft at Eclis River reputed to be 350
feet and ground!

WHALE FACTORY AT ECLIS — one of the most

to the south which represent a disc harrow the
inner ring surrounding a small central burial
ground. This it is suggested, is probably con-
siderably rare with the Woodhouse steel as a

Similar enterprises have been launched in the United States. The annual British output of books amounts to about 14,000 titles. In Germany the figure for 1927 was 31,000. A feature of German literature has been the production of cheap results of standard and successful works. Italy (by the way) extends dictation to

LITERARY ESSAYS &c.

"The House at Bush Corner" A A Milne's fourth Christopher Robin
 "The Black Rock," a further
 "J G Fletcher's symbolic and defiant
 Midsummer Night, Arthurian Legend
 Masfield "The Idols" an ode by
 Binyon "Twelve Idylls and other
 by L. Abercrombie talented short
 ing in verse "The Eaten Heart" by
 ton, "The Bird Catcher" by Martin
 "Near and Far" by Edmund
 "Thirty Two Poems" by E. R. Dodds

vigorous and varied, "The House at Bush
 Corner" A A Milne's fourth Christopher Robin
 "The Black Rock," a further
 "J G Fletcher's symbolic and defiant
 Midsummer Night, Arthurian Legend
 Masfield "The Idols" an ode by
 Binyon "Twelve Idylls and other
 by L. Abercrombie talented short
 ing in verse "The Eaten Heart" by
 ton, "The Bird Catcher" by Martin
 "Near and Far" by Edmund
 "Thirty Two Poems" by E. R. Dodds

Harrison's learnedly imaginative diary of
 November 1904 F & Laurence Andrews

POLITICAL

Davies) J 10 20 Th *Stranger*

(Messrs James L. L. and Allan

Messdames (Misses Collier and

Adrianne Allen and Violet Campbell)

(Cliff Shaftesbury Avenue W 1 (1929) and L. Pryor's play revived (Mr Deering

THE FILMS.

FOLLOWING is a list of some of the principal films shown publicly in London from Nov. 1, 1928 to Oct. 31, 1929 —

(199) Feb. 11 *The Rescue* (Ronald Colman and Lili Damita) March 11 *The Iron Mask* (Douglas Fairbanks) May 6 *Copette* (Mary

Wentz (Vilma
Fuller (McLaren)
e. A. H. L. L. L. L.
tor McLaren)
oria Swanson)
ston)

W. C. — (1929)
a film (Mortu)

W. L. — (1928)
talking blue
in Times P. C.

• 95. 100%

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June 27 3rd
July 29. Inno-
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lenjon and 25
others 10 2nd
Alan) and Jean

—(1929) May 30.
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nd Ma-leine (ar-
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ish (Lars Hansen)
hugway W C-
on, I. I. I. I. I.

1948) for the
 Talmud (1948)
 which was a
 part of the
 Talmud (1948)
 1. April 1948
 musical notes
 (1948)

BRITISH RAILWAYS

limited the only change is 5 per cent. The Almanack

FINANCES OF BRITISH RAILWAYS IN 1913 1927 1928

| Part I— | Totals for Great Britain. | | |
|---|---------------------------|-----------------|-----------------|
| | 1913 | 1927 | 1928 |
| CAPITAL | | | |
| Expenditure — | £ | £ | £ |
| Railway | £ 118 475 971 | £ 1 056 400 000 | £ 1 060 800 000 |
| | 606 647 | 4 700 000 | 5 000 000 |
| | 7 054 454 | 9 200 000 | 9 200 000 |
| | 8,350 405 | 8 100 000 | 8 100 000 |
| | 49 523 589 | 64 100 000 | 64 500 000 |
| | 7 611 216 | 6 400 000 | 6 500 000 |
| | 4 571 216 | 7 500 000 | 7 200 000 |
| | 39 941 725 | 42 400 000 | 42 500 000 |
| | — | — | — |
| | 1 447 624 | 1 300 000 | 1 300 000 |
| Other Items | 1 993 374 | 2 000 000 | 1 000 000 |
| | 1 506 850 | 7 000 000 | 7 000 000 |
| Total | £ 142 543 561 | £ 1 111 100 000 | £ 1 111 100 000 |
| Receipts | £ 1 106 191 858 | £ 1 158 | £ 1 158 |
| Capital Expenditure in excess of Capital Receipts | 35 351 703 | 42 | 42 |

| Particulars | Totals for Great Britain | | |
|---|--------------------------|----------------------|----------------------|
| | 1913 | 1927 | 1928 |
| BALANCE SHEET | | | |
| Liabilities— | | | |
| Temporary Loans Liabilities Bonds &c | £ 4,434,476 | £ 4,000,000 | £ 1,300,000 |
| Interest on Dividends, unpaid interest &c and | 6,640,297 | 5,700,000 | 5,700,000 |
| provided for | 8,734,238 | 18,100,000 | 18,600,000 |
| Savings Banks | 13,902,065 | 40,500,000 | 43,900,000 |
| Superannuation and Provident Funds and Reserves | 6,547,951 | 9,100,000 | 9,300,000 |
| " " " " " " " " " " " " | 5,814,064 | 22,200,000 | 10,300,000 |
| " " " " " " " " " " " " | 20,785,848 | 81,200,000 | 80,000,000 |
| " " " " " " " " " " " " | 20,892,838 | 19,700,000 | 19,100,000 |
| Total | 87,691,779 | 186,800,000 | 187,200,000 |
| Assets— | | | |
| Balance at debit of Capital Account | 35,351,703 | 42,800,000 | 47,700,000 |
| of which Bankers and in Hand | 16,165,963 | 26,500,000 | 25,000,000 |
| Investments | 6,615,267 | 58,700,000 | 56,100,000 |
| Stock of Stores and Material | 14,326,518 | 44,200,000 | 43,100,000 |
| Outstanding Traffic Accounts | 9,780,028 | 15,300,000 | 13,300,000 |
| Accounts Receivable &c | 1,462,553 | 4,000,000 | 4,000,000 |
| Miscellaneous and Suspense Accounts | 3,989,707 | 15,300,000 | 16,000,000 |
| Total | 87,691,779 | 186,800,000 | 187,200,000 |
| NET REVENUE AND APPROPRIATION | | | |
| Net Receipts— | 44,103,950 | 41,800,000 | 39,900,000 |
| Railway (see below) | 3,880 | — | 700,000 |
| Post Office | 146,228 | 600,000 | — |
| Income | 19,505 | 100,000 | 500,000 |
| " " " " " " " " " " " " | 1,281,165 | 600,000 | 800,000 |
| " " " " " " " " " " " " | 552,267 | 800,000 | 1,000,000 |
| " " " " " " " " " " " " | 6,858 | — | — |
| Total | 46,122,893 | 42,500,000 | 40,500,000 |
| —Totally Owned and Jointly Owned Lines (U.K. & Foreign) | — | — | — |
| Miscellaneous Receipts (Net)— | — | 2,500,000 | 2,500,000 |
| General Interest | 2,225,151 | 4,300,000 | 4,500,000 |
| Interest on other Receipts | — | — | — |
| Total | 43,927,044 | 47,300,000 | 47,000,000 |
| —Miscellaneous Charges | 1,626,230 | 2,600,000 | 2,400,000 |
| —Other Fixed Charges &c | 47,442,814 | 46,700,000 | 45,000,000 |
| Net Revenue for the Year | — | — | — |
| APPROPRIATION— | | | |
| Special Items | — | 1,000,000 | 1,000,000 |
| Continuance of Funds | — | — | — |
| General Reserve Fund | 46,172,494 | 46,500,000 | 44,900,000 |
| Interest and Dividends on Capital | — | — | — |
| Total | + 45,995 | + 100,000 | + 200,000 |
| Per cent. | 4.17 | Per cent. 4.0 | Per cent. 3.8 |
| WAY WORKING | | | |
| Gross Receipts— | | | |
| Passenger Train Traffic | 3,629,445 | 4,800,000 | 5,200,000 |
| Freight Traffic | 903,118 | 500,000 | 500,000 |
| Other Traffic | 34,263,413 | 52,100,000 | 50,000,000 |
| Total | 38,795,976 | 57,400,000 | 55,700,000 |

| Particulars | Totals for Current | | |
|--|--------------------|---------------|---------------|
| | 1913 | 1927 | 1928 |
| LIABILITIES EXPENDITURE IN 1913 | | | |
| Wages and Salaries | £ 1,657,284 | £ 2,900,000 | £ 2,700,000 |
| Stores and Materials | 587,560 | 500,000 | 500,000 |
| Passenger Traffic | 2,531,106 | 7,300,000 | 7,300,000 |
| Sea and Land | | | |
| Total | 4,771,950 | 10,700,000 | 10,500,000 |
| Workmen's Wages | 1,663,150 | 3,800,000 | 4,000,000 |
| Materials | 421,231,977 | 71,300,000 | 71,100,000 |
| Parcels and Express | 8,911,339 | 8,700,000 | 8,700,000 |
| Other Miscellaneous | 2,400,000 | 5,400,000 | 5,200,000 |
| Mails and Parcels Post | 1,124,023 | 3,900,000 | 3,900,000 |
| Total Passenger Train Receipts | 54,525,821 | 90,300,000 | 88,900,000 |
| | 35,694,755 | 53,700,000 | 50,900,000 |
| | 8,959,091 | 17,100,000 | 15,500,000 |
| | 22,672,036 | 37,600,000 | 34,500,000 |
| | 1,886,135 | 2,000,000 | 2,000,000 |
| Total Goods Train Receipts | 64,254,895 | 110,400,000 | 103,300,000 |
| Total Traffic Receipts | 118,780,716 | 200,700,000 | 192,200,000 |
| Miscellaneous Receipts | 1,024,804 | 1,700,000 | 1,800,000 |
| Total Receipts | 119,805,520 | 202,400,000 | 194,000,000 |
| Expenditure | | | |
| | 11,877,578 | 22,600,000 | 22,600,000 |
| | 13,215,566 | 28,100,000 | 26,600,000 |
| | 17,439,375 | 30,900,000 | 30,600,000 |
| | 23,568,029 | 54,300,000 | 53,200,000 |
| | 2,671,021 | 5,400,000 | 5,400,000 |
| | 1,162,780 | 1,000,000 | 1,000,000 |
| | 4,771,529 | 7,300,000 | 6,700,000 |
| | 355,000 | 400,000 | 400,000 |
| | 831,652 | 1,400,000 | 1,300,000 |
| Total Expenditure | 75,704,320 | 160,600,000 | 154,200,000 |
| Net Receipts | 44,103,950 | 41,800,000 | 39,800,000 |
| Total Expenditure percentage of Total Receipts | Per cent 63.53 | Per cent 79.3 | Per cent 79.4 |
| | | | 20,387 |
| | | | 37,097 |
| | | | 15,463 |
| | | | 5,567 |
| ROLLING STOCK (Frame Locomotives) | | | |
| Steam and Petrol | 23,501 | 22,971 | 23,625 |
| Electric | 83 | 40 | 40 |
| CARRIAGE VEHICLES | | | |
| Passenger carrying | 55,024 | 52,886 | |
| Other Carrying Vehicles | 80,935 | 27,800 | |
| Merchandise Mineral and Special Vehicles | 735,204 | 717,741 | |
| Delivery and Service Vehicles | 48,155 | 31,226 | |

IRISH AND IRISH RAILWAY STOCKS AND SHARES—continued

| Railway | Stock | 18th Feb 1907 | 1st Feb 1907 | Prices | | |
|-------------------------|-----------------------------|---------------|--------------|---------------|---------------|--------------|
| | | | | Sept. 22 1906 | Sept. 29 1906 | Rise or Fall |
| Great Northern | 6 per cent First Cum Income | | | | | |
| Underground | 1st P d | 108 | 104½ | 102½ | 102 | — |
| Underground | 6 per cent First Cum Income | 132½ | 107 | 112 | 110 | — |
| <i>Irish</i> | | | | | | |
| Belfast and Londonderry | Ordinary | 17 | 16 | 10½ | 10½ | |
| Great Northern | Ordinary | 35½ | 25½ | 30 | 30 | |
| Great Southern | Ordinary | 16½ | 14½ | 20 | 19½ | — ½ |
| Great Southern | Preference | 44 | 34 | 39½ | 40 | + ½ |
| Great Southern | 1st P d | 54½ | 45 | 50½ | 50 | |
| Great Southern | 1st P d | 65½ | 58 | 59½ | 60 | + ½ |

at Belfast

SALARIES AND WAGES OF RAILWAY SERVANTS

MALE OFFICIAL STAFF INCLUDING HEAD CLERKS, STATIONMASTERS AND BOOKING CLERKS 1st AUGUST 1ST 1919

| Juniors | | | | Seniors | | | |
|---------|----------|-----|----------|---------|----------|-----|----------|
| Age | Per week | Age | Per week | Age | Per week | Age | Per week |
| 16 | 17 6 | 23 | 40 0 | 16 | 17 6 | 23 | 40 0 |
| 17 | 22 6 | 24 | 42 6 | 17 | 22 6 | 24 | 42 6 |
| Class 2 | | | | 25 | 45 0 | 25 | 45 0 |
| | | | | 26 | 47 6 | 26 | 47 6 |
| | | | | 27 | 50 0 | 27 | 50 0 |
| | | | | 28 | 52 6 | 28 | 52 6 |
| | | | | 29 | 55 0 | 29 | 55 0 |
| | | | | 30 | 57 6 | 30 | 57 6 |
| | | | | 31 | 60 0 | 31 | 60 0 |
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| | | | | 96 | | 96 | |
| | | | | 97 | | 97 | |
| | | | | 98 | | 98 | |
| | | | | 99 | | 99 | |
| | | | | 100 | | 100 | |

(£10 per annum additional paid to those in Junior Scale and Classes 5, 4, 3, 2, and 1 who work at offices, stations and depôts within 10 miles of their homes.)

(£4 per week additional paid to those in all the mentioned Classes who work at depôts, stations and depôts within 10 miles of their homes.)

DAILY RATES OF PAY OF RAILWAY DRIVERS, FIREMEN & CLEANERS FROM AUGUST 18TH, 1919.

| Drivers | | Firemen | | Cleaners | |
|-------------------|---------|-------------------|---------|---------------------------|---------|
| Per day | Per day | Per day | Per day | Per day | Per day |
| 1st and 2nd years | 12 | 1st and 2nd years | 9 | 16 years of age and under | 4 |
| 3rd and 4th years | 13 | 3rd and 4th years | 10 | 17 years of age and under | 5 |
| 5th year | 14 | 5th to 10th year | 11 | 18 and 19 years of age | 6 |
| 6th year | 15 | 11th year | 12 | 20 years of age and over | 7 |

WEEKLY WAGES OF RAILWAY SERVANTS FROM SEPTEMBER 30TH, 1919.

| | | | |
|------------------|------------|---------------|------------|
| Porters | 40s to 48s | Hunters | 50s to 65s |
| Parcel Posters | 50s to 55s | Goods Porters | 40s to 47s |
| 1st Collectors | 54s to 58s | Checkers | 47s to 57s |
| Passenger Guards | 50s to 65s | Carters | 46s to 53s |
| Goods Guards | 50s to 65s | Undermen | 40s to 50s |

* Excluding War Bonus, if any

WEEKLY WAGES FOR LADIES ON RAILWAYS FROM OCTOBER 1ST 1919

| | | | |
|--------------------|------|--------------------|------|
| Age 15 or under | 16s | On reaching age 18 | 20s |
| On reaching age 16 | 20s | " " " 19 | 22s |
| " " " 17 | 22s | " " " 20 | 24s |
| " " " 18 | 24s | " " " 21 | 26s |
| " " " 19 | 26s | " " " 22 | 28s |
| " " " 20 | 28s | " " " 23 | 30s |
| " " " 21 | 30s | " " " 24 | 32s |
| " " " 22 | 32s | " " " 25 | 34s |
| " " " 23 | 34s | " " " 26 | 36s |
| " " " 24 | 36s | " " " 27 | 38s |
| " " " 25 | 38s | " " " 28 | 40s |
| " " " 26 | 40s | " " " 29 | 42s |
| " " " 27 | 42s | " " " 30 | 44s |
| " " " 28 | 44s | " " " 31 | 46s |
| " " " 29 | 46s | " " " 32 | 48s |
| " " " 30 | 48s | " " " 33 | 50s |
| " " " 31 | 50s | " " " 34 | 52s |
| " " " 32 | 52s | " " " 35 | 54s |
| " " " 33 | 54s | " " " 36 | 56s |
| " " " 34 | 56s | " " " 37 | 58s |
| " " " 35 | 58s | " " " 38 | 60s |
| " " " 36 | 60s | " " " 39 | 62s |
| " " " 37 | 62s | " " " 40 | 64s |
| " " " 38 | 64s | " " " 41 | 66s |
| " " " 39 | 66s | " " " 42 | 68s |
| " " " 40 | 68s | " " " 43 | 70s |
| " " " 41 | 70s | " " " 44 | 72s |
| " " " 42 | 72s | " " " 45 | 74s |
| " " " 43 | 74s | " " " 46 | 76s |
| " " " 44 | 76s | " " " 47 | 78s |
| " " " 45 | 78s | " " " 48 | 80s |
| " " " 46 | 80s | " " " 49 | 82s |
| " " " 47 | 82s | " " " 50 | 84s |
| " " " 48 | 84s | " " " 51 | 86s |
| " " " 49 | 86s | " " " 52 | 88s |
| " " " 50 | 88s | " " " 53 | 90s |
| " " " 51 | 90s | " " " 54 | 92s |
| " " " 52 | 92s | " " " 55 | 94s |
| " " " 53 | 94s | " " " 56 | 96s |
| " " " 54 | 96s | " " " 57 | 98s |
| " " " 55 | 98s | " " " 58 | 100s |
| " " " 56 | 100s | " " " 59 | 102s |
| " " " 57 | 102s | " " " 60 | 104s |
| " " " 58 | 104s | " " " 61 | 106s |
| " " " 59 | 106s | " " " 62 | 108s |
| " " " 60 | 108s | " " " 63 | 110s |
| " " " 61 | 110s | " " " 64 | 112s |
| " " " 62 | 112s | " " " 65 | 114s |
| " " " 63 | 114s | " " " 66 | 116s |
| " " " 64 | 116s | " " " 67 | 118s |
| " " " 65 | 118s | " " " 68 | 120s |
| " " " 66 | 120s | " " " 69 | 122s |
| " " " 67 | 122s | " " " 70 | 124s |
| " " " 68 | 124s | " " " 71 | 126s |
| " " " 69 | 126s | " " " 72 | 128s |
| " " " 70 | 128s | " " " 73 | 130s |
| " " " 71 | 130s | " " " 74 | 132s |
| " " " 72 | 132s | " " " 75 | 134s |
| " " " 73 | 134s | " " " 76 | 136s |
| " " " 74 | 136s | " " " 77 | 138s |
| " " " 75 | 138s | " " " 78 | 140s |
| " " " 76 | 140s | " " " 79 | 142s |
| " " " 77 | 142s | " " " 80 | 144s |
| " " " 78 | 144s | " " " 81 | 146s |
| " " " 79 | 146s | " " " 82 | 148s |
| " " " 80 | 148s | " " " 83 | 150s |
| " " " 81 | 150s | " " " 84 | 152s |
| " " " 82 | 152s | " " " 85 | 154s |
| " " " 83 | 154s | " " " 86 | 156s |
| " " " 84 | 156s | " " " 87 | 158s |
| " " " 85 | 158s | " " " 88 | 160s |
| " " " 86 | 160s | " " " 89 | 162s |
| " " " 87 | 162s | " " " 90 | 164s |
| " " " 88 | 164s | " " " 91 | 166s |
| " " " 89 | 166s | " " " 92 | 168s |
| " " " 90 | 168s | " " " 93 | 170s |
| " " " 91 | 170s | " " " 94 | 172s |
| " " " 92 | 172s | " " " 95 | 174s |
| " " " 93 | 174s | " " " 96 | 176s |
| " " " 94 | 176s | " " " 97 | 178s |
| " " " 95 | 178s | " " " 98 | 180s |
| " " " 96 | 180s | " " " 99 | 182s |
| " " " 97 | 182s | " " " 100 | 184s |
| " " " 98 | 184s | " " " 101 | 186s |
| " " " 99 | 186s | " " " 102 | 188s |
| " " " 100 | 188s | " " " 103 | 190s |
| " " " 101 | 190s | " " " 104 | 192s |
| " " " 102 | 192s | " " " 105 | 194s |
| " " " 103 | 194s | " " " 106 | 196s |
| " " " 104 | 196s | " " " 107 | 198s |
| " " " 105 | 198s | " " " 108 | 200s |
| " " " 106 | 200s | " " " 109 | 202s |
| " " " 107 | 202s | " " " 110 | 204s |
| " " " 108 | 204s | " " " 111 | 206s |
| " " " 109 | 206s | " " " 112 | 208s |
| " " " 110 | 208s | " " " 113 | 210s |
| " " " 111 | 210s | " " " 114 | 212s |
| " " " 112 | 212s | " " " 115 | 214s |
| " " " 113 | 214s | " " " 116 | 216s |
| " " " 114 | 216s | " " " 117 | 218s |
| " " " 115 | 218s | " " " 118 | 220s |
| " " " 116 | 220s | " " " 119 | 222s |
| " " " 117 | 222s | " " " 120 | 224s |
| " " " 118 | 224s | " " " 121 | 226s |
| " " " 119 | 226s | " " " 122 | 228s |
| " " " 120 | 228s | " " " 123 | 230s |
| " " " 121 | 230s | " " " 124 | 232s |
| " " " 122 | 232s | " " " 125 | 234s |
| " " " 123 | 234s | " " " 126 | 236s |
| " " | | | |

REPLY PAGE OF SIGNALMEN FROM MAY 1ST, 1922

| Class | Average number of marks* | Standard rate per week | Class | Average number of marks* | Standard rate per week |
|---------|--------------------------|------------------------|-------|--------------------------|------------------------|
| Special | 375 and over | 75¢ | 4 | 25 to 349 | 55¢ |
| 1 | 300 to 374 | 70¢ | 5 | 30 to 74 | 50¢ |
| 2 | 225 to 299 | 65¢ | 6 | 1 to 29 | 45¢ |
| 3 | 150 to 224 | 60¢ | | | |

* The whole of the signal area on the railways are classified, the class into which each post is placed being determined by the system of work used.

RAILWAY POLICE FROM JANUARY 9TH 1927

Uniform Inspectors
Detective Inspectors

RATE OF SALARY FOR EACH YEAR OF SERVICE.

| 1-4 | 2-4 | 5 years |
|-------|-------|---------|
| £ 250 | £ 260 | £ 270 |
| 287 | 295 | 310 |
| 330 | 345 | 360 |

In addition, \$10.00 a month (or less) per week if paid weekly for working at night or depths within 10 ft of bottom (100%).

1 11 PM CONSTABLES AND SPECIALTY

13

¹⁰ W. al. in loc. (W. sen. for ex.) car. d. pers. \leq in the vari. in rank.[illegible]

* Incl less cost of living B : s which of course fluctuates. The above rates were 24, 30.44 in all cases at end of November 1925.

Men in any rank who are not supplied by the employing Company with uniforms 40 per week extra and 30 per week extra if working at stations or depots within 30 miles from Chicago.

LONGEST DAILY PLANS

The Longest Daily Run with out Intermediate Stoppage are made by the Companies as under:-

| Railway | Section | Tral | Between | Time | Speed |
|---------------------------------|-----------|------|---------|------|--------|
| | | | | Min. | per h. |
| London & North Eastern | L & N E | | | 405 | 46 |
| London Midland & North Eastern | L & M N E | | | 415 | 47 |
| London Midland & Scottish | L & M S | | | 425 | 48 |
| London Midland & Great Northern | L & M G N | | | 435 | 49 |
| London Midland & Great Western | L & M G W | | | 445 | 50 |
| London Midland & Great Eastern | L & M G E | | | 455 | 51 |
| London Midland & Great Southern | L & M G S | | | 465 | 52 |
| London Midland & Great Western | L & M G W | | | 475 | 53 |
| London Midland & Great Eastern | L & M G E | | | 485 | 54 |
| London Midland & Great Southern | L & M G S | | | 495 | 55 |
| London Midland & Great Western | L & M G W | | | 505 | 56 |
| London Midland & Great Eastern | L & M G E | | | 515 | 57 |
| London Midland & Great Southern | L & M G S | | | 525 | 58 |
| London Midland & Great Western | L & M G W | | | 535 | 59 |
| London Midland & Great Eastern | L & M G E | | | 545 | 60 |
| London Midland & Great Southern | L & M G S | | | 555 | 61 |
| London Midland & Great Western | L & M G W | | | 565 | 62 |
| London Midland & Great Eastern | L & M G E | | | 575 | 63 |
| London Midland & Great Southern | L & M G S | | | 585 | 64 |
| London Midland & Great Western | L & M G W | | | 595 | 65 |
| London Midland & Great Eastern | L & M G E | | | 605 | 66 |
| London Midland & Great Southern | L & M G S | | | 615 | 67 |
| London Midland & Great Western | L & M G W | | | 625 | 68 |
| London Midland & Great Eastern | L & M G E | | | 635 | 69 |
| London Midland & Great Southern | L & M G S | | | 645 | 70 |
| London Midland & Great Western | L & M G W | | | 655 | 71 |
| London Midland & Great Eastern | L & M G E | | | 665 | 72 |
| London Midland & Great Southern | L & M G S | | | 675 | 73 |
| London Midland & Great Western | L & M G W | | | 685 | 74 |
| London Midland & Great Eastern | L & M G E | | | 695 | 75 |
| London Midland & Great Southern | L & M G S | | | 705 | 76 |
| London Midland & Great Western | L & M G W | | | 715 | 77 |
| London Midland & Great Eastern | L & M G E | | | 725 | 78 |
| London Midland & Great Southern | L & M G S | | | 735 | 79 |
| London Midland & Great Western | L & M G W | | | 745 | 80 |
| London Midland & Great Eastern | L & M G E | | | 755 | 81 |
| London Midland & Great Southern | L & M G S | | | 765 | 82 |
| London Midland & Great Western | L & M G W | | | 775 | 83 |
| London Midland & Great Eastern | L & M G E | | | 785 | 84 |
| London Midland & Great Southern | L & M G S | | | 795 | 85 |
| London Midland & Great Western | L & M G W | | | 805 | 86 |
| London Midland & Great Eastern | L & M G E | | | 815 | 87 |
| London Midland & Great Southern | L & M G S | | | 825 | 88 |
| London Midland & Great Western | L & M G W | | | 835 | 89 |
| London Midland & Great Eastern | L & M G E | | | 845 | 90 |
| London Midland & Great Southern | L & M G S | | | 855 | 91 |
| London Midland & Great Western | L & M G W | | | 865 | 92 |
| London Midland & Great Eastern | L & M G E | | | 875 | 93 |
| London Midland & Great Southern | L & M G S | | | 885 | 94 |
| London Midland & Great Western | L & M G W | | | 895 | 95 |
| London Midland & Great Eastern | L & M G E | | | 905 | 96 |
| London Midland & Great Southern | L & M G S | | | 915 | 97 |
| London Midland & Great Western | L & M G W | | | 925 | 98 |
| London Midland & Great Eastern | L & M G E | | | 935 | 99 |
| London Midland & Great Southern | L & M G S | | | 945 | 100 |

(a) **Tính Toán**

(b) Newspaper for Export.

| | | | | | |
|--|--------|--------|-------|-------|-------|
| Derailments | 490 | 251 | 247 | 228 | 245 |
| Running into Obstructions | 408 | 231 | 231 | 253 | 229 |
| Fires | 331 | 298 | 291 | 339 | 372 |
| Miscellaneous | 98 | 53 | 79 | 99 | 77 |
| II - ACCIDENTS TO OR FAILURE OF PULLING STOCK OR PERMANENT WAY - | 24 | 9 | 12 | 31 | 40 |
| Bursting of Boilers or Tubes &c of Engines | | | | | |
| Failure of Machinery Springs &c of Engines | 3 | 3 | 1 | 2 | 2 |
| Failure of Tyres | 40 | 28 | 20 | 31 | 16 |
| Failure of Axles | 58 | 40 | 44 | 54 | 56 |
| Failure of Coupling Apparatus | 71 | 68 | 65 | 77 | 63 |
| Failure of Tunnels, Bridges, Viaducts, Culverts &c | 10 586 | 10 053 | 7 905 | 9,461 | 7 600 |
| Broken Rails | — | 4 | 4 | 7 | 7 |
| Flooding of Permanent Way | 195 | 175 | 163 | 185 | 149 |
| Slips &c | 78 | 50 | 29 | 169 | 81 |
| Fires at Stations or in Lying | | | | | |
| Injury to bridges, viaducts | 57 | 31 | 20 | 19 | 43 |
| Miscellaneous | 3 | 4 | 3 | 1 | 0 |

| NUMBER OF PERSONS KILLED OR INJURED - | Killed | Inj | Killed | Inj | Killed | Inj | Killed | Inj | Killed | Inj |
|--|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
| I - In Accidents to Trains & Pulling Stock and Permanent Way - | | | | | | | | | | |
| Passengers | 24 | 502 | 1 | 391 | 13 | 745 | 27 | 518 | 48 | 611 |
| Servants | 8 | 139 | 14 | 107 | 2 | 68 | 2 | 117 | 15 | 108 |
| Other Persons | 10 | 42 | 19 | 46 | 17 | 24 | 7 | 38 | 9 | 71 |
| Total | 42 | 683 | 34 | 544 | 32 | 837 | 36 | 673 | 72 | 890 |

| | | | | | | | | | | |
|---|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| Passengers | 85 | 3 677 | 70 | 3 960 | 72 | 3 647 | 79 | 3 194 | 70 | 3 276 |
| Servants | 220 | 3 764 | 242 | 3 561 | 159 | 3 822 | 200 | 3 777 | 201 | 3 619 |
| Other Persons* | 61 | 97 | 54 | 107 | 53 | 89 | 54 | 113 | 56 | 106 |
| Total | 366 | 6 538 | 366 | 6 627 | 384 | 6 558 | 433 | 6 984 | 327 | 6 991 |
| C - In Accidents on Footways &c not connected with the movement of Locomotives & Trains - | | | | | | | | | | |
| Passengers | 3 | 787 | 5 | 897 | 8 | 845 | 8 | 1,080 | 6 | 1,181 |
| Servants | 33 | 17 195 | 42 | 17 638 | 37 | 15 493 | 44 | 16 632 | 40 | 15 342 |
| Other Persons* | 16 | 438 | 18 | 561 | 13 | 550 | 14 | 513 | 15 | 547 |
| Total | 52 | 18,420 | 65 | 19,196 | 58 | 16,888 | 66 | 18,225 | 61 | 17,070 |
| TOTALS - | | | | | | | | | | |
| Passengers | 112 | 3 966 | 76 | 4,377 | 93 | 4 267 | 111 | 4 798 | 114 | 5,028 |
| Servants | 253 | 21 098 | 284 | 21 399 | 196 | 15,473 | 244 | 19 925 | 241 | 18 461 |
| Other Persons* | 77 | 577 | 72 | 713 | 73 | 693 | 75 | 686 | 71 | 713 |
| GRAND TOTAL* | 442 | 25 641 | 432 | 26 489 | 374 | 23 433 | 430 | 25,409 | 426 | 24 202 |

* Excludes Trains, Locomotives, and Persons who suffer from them.

| | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| A - In Accidents caused by the movement of Locomotives & Trains | 354 | 75 | 356 | 51 | 297 | 57 | 346 | 74 | 301 | 51 |
| B - In Accidents caused by the movement of Locomotives & Trains | 14 | 51 | 27 | 57 | 21 | 66 | 10 | 18 | 10 | 71 |
| Total | 368 | 126 | 383 | 108 | 318 | 114 | 356 | 92 | 311 | 122 |

| Railways | Engineer | Builder |
|-----------------------------|--------------------|-------------------|
| Belfast & County Down | P. A. Arnott, C.E. | F. & J. H. Jones |
| Great Northern Committee | A. P. Ross | Bevis & Co |
| Great Northern (Ireland) | P. A. Campbell | Robert Laithledge |
| Great Southern (Ireland) | L. J. Stiles | J. J. McKerr & Co |
| Great Western | L. Carmichael | A. G. Hubbard |
| Londonderry & Lough Swilly | R. B. Newell | J. Tracy |
| London & North Eastern | | |
| London Midland & Scottish | | |
| Metropolitan | L. S. Parsons | |
| Northern Counties Committee | W. H. Wallace | John Bristow |
| Southern | Edison & Co. | William Bishop |
| Underground Electric | A. L. Cooper | Braham & Co. |

* For other Railway Offices see page 907

HIGHEST ALTITUDES ON WOLDS I RILWAYS

| Way | Height | ft. |
|-----------------------------------|---------------|--------|
| Autofagasta & Bolivia Cille | Colishist | 15,800 |
| Peruvian Central Peru | Galera Tunnel | 15,583 |
| Pyke's Peak I S A | Pyke's Peak | 14,747 |
| Jungfrau Switzerland | Jungfrau | 11,344 |
| Transandinian Railway, Argentine | La Cumbre | 10,405 |
| Interoceanic Mexico | Sanacanalpa | 8,400 |
| Uganda | Kikuyu | 7,837 |
| Ceylon Government (at 6 m. gauge) | Kandapola | 6,315 |
| Canadian Pacific Canada | Stephens | 5,406 |
| Northern Line N S W Australia | Ben Lomond | 4,473 |
| U. G. Thailand | Gothard | 3,789 |

HIGHEST ALTITUDES REACHED BY BRITISH RAILWAYS

| Railway | Summit | ft. |
|---------|--------|-------|
| | | 3,749 |
| | | 4,485 |
| | | 4,405 |
| | | 4,405 |
| | | 4,408 |
| | | 4,378 |
| | | 4,373 |
| | | 4,309 |
| | | 4,350 |
| | | 4,315 |
| | | 4,314 |
| | | 4,268 |
| | | 4,268 |
| | | 4,198 |
| | | 4,107 |
| | | 4,051 |

| Way | Station | Height | Level | Vertical Max. d. of Power |
|------------|---|------------|-------|---------------------------|
| L. M. & A. | 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 | Station | 453 | Power |
| L. M. & A. | Clasgow, Central | Station | 3-4 | Power |
| L. & N. E. | York | Loos Lane | 304 | Manual |
| L. M. & A. | East | No. 1 | 288 | " |
| " | Lo 1 m Bridge | Station | 312 | Power |
| " | Victoria | South | 260 | Power |
| L. & N. E. | Newcastle | No. 1 | 260 | Power |
| L. M. & A. | Crews | North June | 256 | " |
| " | Waterloo | A | 266 | Manual |
| L. & N. E. | St. James | East | 260 | " |

ELECTRICALLY WORKED RAILWAY IN 1918 20

Departmental service is shifting electric locomotives about 1 after 4 a.m.

| | Electric Mins | Electric Lamps | Motor Cars | Trailer Cars |
|-----------------------------|------------------|-------------------|---------------------------|-----------------|
| Boardwalk and N. Ave. (n) | 3 | | 2 | — |
| Central Loop (m) | 6 | 0 + 1 | 28 | 171 |
| City and South Loop | 221 | | 45 | 68 |
| East Loop (m) | 4 | — | | — |
| Great Western— | | | | |
| Baking and Pie Shop (f) (s) | 41 | — | — | — |
| Hammetsmith and Erie (f) | 3 | | 20 (r) | 40 (r) |
| Great North on Italia | 51 | | { 20 (f) + 2 (f) (j) } | — |
| Liverpool Street and (f) | 61 | | 42 | 15 |
| Loop (m) and North Eastern | 55 | 13 | 37 + 15 (r) | 35 |
| Loop (m) Midland and North | 82 | 2 | 311 | 406 |
| London Electric | 311 | — | 304 | 487 |
| Manx Electric | 18 (a) 5 (l) | | 34 | 29 |
| Mersey | 41 | — | 25 | 40 |
| Metropolitan | 391 | 20 + 2 | 193 | 356 |
| Metropolitan District | 271 | 7 + 2 | 272 | 253 |
| Philborn | 260 | | 720 | 254 |
| Willesden and Lower | 2 | | — | — |

[illegible]

MOTOR ROAD VEHICLES ON PRINCIPAL BUSINESS AND FEED LIAWAYS

| Source of flow | Percentage | Percentage |
|---------------------------------------|------------|------------|
| Leffert and Co. (North) | 4 | 1 |
| Leffert and Co. (South) | 7 | 1 |
| Leffert and Co. (West) | 296 | 86 |
| S. M. S. (Northern & Central Section) | 2 | — |
| London Midland & North Eastern | 10 | 28 |
| London and North Eastern | 38 | 50 |
| Metropolitan | 4 | 11 |
| Other | — | 2 |

COMPARISON OF MILEAGE LOCOMOTIVES,
VEHICLES, ETC. OF GREAT BRITAIN
UNITED STATES AND GERMANY IN 1927

| | Great Britain | United States | Germany |
|------|---------------|---------------|---------|
| 1937 | 100 | 100 | 100 |
| 1938 | 100 | 100 | 100 |
| 1939 | 100 | 100 | 100 |
| 1940 | 100 | 100 | 100 |
| 1941 | 100 | 100 | 100 |
| 1942 | 100 | 100 | 100 |
| 1943 | 100 | 100 | 100 |
| 1944 | 100 | 100 | 100 |
| 1945 | 100 | 100 | 100 |
| 1946 | 100 | 100 | 100 |
| 1947 | 100 | 100 | 100 |
| 1948 | 100 | 100 | 100 |
| 1949 | 100 | 100 | 100 |
| 1950 | 100 | 100 | 100 |
| 1951 | 100 | 100 | 100 |
| 1952 | 100 | 100 | 100 |
| 1953 | 100 | 100 | 100 |
| 1954 | 100 | 100 | 100 |
| 1955 | 100 | 100 | 100 |
| 1956 | 100 | 100 | 100 |
| 1957 | 100 | 100 | 100 |
| 1958 | 100 | 100 | 100 |
| 1959 | 100 | 100 | 100 |
| 1960 | 100 | 100 | 100 |
| 1961 | 100 | 100 | 100 |
| 1962 | 100 | 100 | 100 |
| 1963 | 100 | 100 | 100 |
| 1964 | 100 | 100 | 100 |
| 1965 | 100 | 100 | 100 |
| 1966 | 100 | 100 | 100 |
| 1967 | 100 | 100 | 100 |
| 1968 | 100 | 100 | 100 |
| 1969 | 100 | 100 | 100 |
| 1970 | 100 | 100 | 100 |
| 1971 | 100 | 100 | 100 |
| 1972 | 100 | 100 | 100 |
| 1973 | 100 | 100 | 100 |
| 1974 | 100 | 100 | 100 |
| 1975 | 100 | 100 | 100 |
| 1976 | 100 | 100 | 100 |
| 1977 | 100 | 100 | 100 |
| 1978 | 100 | 100 | 100 |
| 1979 | 100 | 100 | 100 |
| 1980 | 100 | 100 | 100 |
| 1981 | 100 | 100 | 100 |
| 1982 | 100 | 100 | 100 |
| 1983 | 100 | 100 | 100 |
| 1984 | 100 | 100 | 100 |
| 1985 | 100 | 100 | 100 |
| 1986 | 100 | 100 | 100 |
| 1987 | 100 | 100 | 100 |
| 1988 | 100 | 100 | 100 |
| 1989 | 100 | 100 | 100 |
| 1990 | 100 | 100 | 100 |
| 1991 | 100 | 100 | 100 |
| 1992 | 100 | 100 | 100 |
| 1993 | 100 | 100 | 100 |
| 1994 | 100 | 100 | 100 |
| 1995 | 100 | 100 | 100 |
| 1996 | 100 | 100 | 100 |
| 1997 | 100 | 100 | 100 |
| 1998 | 100 | 100 | 100 |
| 1999 | 100 | 100 | 100 |
| 2000 | 100 | 100 | 100 |
| 2001 | 100 | 100 | 100 |
| 2002 | 100 | 100 | 100 |
| 2003 | 100 | 100 | 100 |
| 2004 | 100 | 100 | 100 |
| 2005 | 100 | 100 | 100 |
| 2006 | 100 | 100 | 100 |
| 2007 | 100 | 100 | 100 |
| 2008 | 100 | 100 | 100 |
| 2009 | 100 | 100 | 100 |
| 2010 | 100 | 100 | 100 |
| 2011 | 100 | 100 | 100 |
| 2012 | 100 | 100 | 100 |
| 2013 | 100 | 100 | 100 |
| 2014 | 100 | 100 | 100 |
| 2015 | 100 | 100 | 100 |
| 2016 | 100 | 100 | 100 |
| 2017 | 100 | 100 | 100 |
| 2018 | 100 | 100 | 100 |
| 2019 | 100 | 100 | 100 |
| 2020 | 100 | 100 | 100 |
| 2021 | 100 | 100 | 100 |
| 2022 | 100 | 100 | 100 |
| 2023 | 100 | 100 | 100 |
| 2024 | 100 | 100 | 100 |
| 2025 | 100 | 100 | 100 |
| 2026 | 100 | 100 | 100 |
| 2027 | 100 | 100 | 100 |
| 2028 | 100 | 100 | 100 |
| 2029 | 100 | 100 | 100 |
| 2030 | 100 | 100 | 100 |

UNION OF IRISH RAILWAY EMPLOYEES

| Name of Company | All Quarters | |
|-----------------------|------------------|---------------------|
| | At March 31 1901 | At December 31 1903 |
| " | 1 167 | 820 |
| " | 650 | 497 |
| " | 339 | 304 |
| " | 1 657 | 1 316 |
| " | 6 969 | 5 365 |
| " | 10 194 | 8 611 |
| " | 381 | 415 |
| " | 4 353 | 3 319 |
| " | 2 765 | 2 611 |
| " | 169 | (6) |
| " | 1 967 | 1,528 |
| Total, Ireland | 30 511 | |
| Total, United Kingdom | 731 084 | |

INDIAN RAILWAYS IN 1926 1927

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u. a. d. r. w. m. (a) r. b. d.

Government of India Railway Department
(Railway Board)
Secretary to the Council of Government General The
Honourable Mr George R. J. ...

Pa l m a t E s t r d

1 Co n s e r v e R a d r a y s a i r A u s t e n
 d a t C a n e r P a l e n u s A A I
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 p a n e s W e a n t h i l l C I R s

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t r C e l f e n e e s A L i n e
 v e r M h a n q u F i c e F I . l l y
 v e r E t a b l a h w e r J t H i d e t
 v e r T r a d e C o l t d r i n
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1 from 1914 to 1917. All of the above are
in the field.

INIA C FIO I

INITIALS (FBI)
(Railway Section Financial Department:
Mitchell, L. J. B. W. J.)

Wittellall Loof n B.W. s
etary (Finance & Department), (

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Deputy Secretary of the Program
Deputy Director of the Program
Deputy Director of the Program
Deputy Director of the Program
Deputy Director of the Program
Deputy Director of the Program

Ch of Superint nde t H W C C B
Attached Officers

Technical Officer Y F C 1e
 Technical Officer W A 1a 1e

1. Lieutenant General F. H. B. ...
2. Lieutenant General R. H. ...

Deputy Secretary General (C 1 0)

4-11-68
S. J. N. P. L.
Inspector, IL-4

W A Teller W A Jorvis
Morgan J F Jackson L F R H Lu
M H C met Mc Kn

Laurel Adair and Government Juries

Indian Day Company
Consulting Engineers
1000 15th St. N.W.
Washington, D.C.

• Address India Office 116, New L. N. E. 2
at 116, India

ALMANACK 1030

[illegible]

INSECTS AND HOW TO FLAUN

| Line | Flag | Flag |
|--------------------------|---|--|
| Aberdeen Line | See " " | 11 and 11 e h r i z i t a l s t r i p s 11 a r i n c e n t r e . |
| Admiral | 11 k | W h i t e 11 e w i t h r e d 11 e |
| Atlantic Transport | 11 11 11 b l a k t 11 | 11 d w h i t e a d 11 e 11 r i z o 11 s t r i p w i t h s t a r s . |
| Bay | 11 k b a k t 11 | 11 e l |
| Blue Funnel Line | 11 11 11 u 11 a k t o 11 | 11 e A d 11 11 11 e o n a w h i t e d i n 11 |
| Blue Star Line | 11 e d 11 a k t 11 e w h i t 11 a n d 11 a k a 11 11 e s t a r i n w h i t e 11 e . | 11 11 11 r g e e 11 e p o l 11 e d 11 u s t a r w h i t e 11 e 11 |
| British & African | 11 a k | W h i t e 11 e 11 11 11 a l c r o s s 11 11 e c e n t r e |
| British India | 11 a k w i t h t w o w h i t e 11 a r i p e s | 11 e b u t a c e 11 11 e c r o s s |
| Colonial & Australian | 11 11 11 a k t o 11 11 a t e 11 u d | W h i t e b u r g e e w i t h r e d 11 a r o 11 c r o s s |
| Canadian National | 11 u l 11 a k t o 11 | 11 e d w h i t e 11 t G e o r g e s c r o s s 11 11 11 a l s c e n t r e |
| Canadian Pacific | 11 u f f | 11 l u e p e n n a n t 11 e d c r o s s o v e r 11 a l 11 11 e |
| Casimira | 11 u f f | 11 11 e d 11 e d a d t h r e e w h i t e s q u a r e s |
| Casimira Ltd | 11 11 w h i t e a d w 11 e d 11 a r s | W h i t e f l a g w i t h f i v e r e d s t a r s . |
| Casimira Ltd | 11 11 w h i t e a d w 11 e d 11 a r s | W h i t e 11 e d b a l l 11 a n e o f 11 a 11 11 e r 11 |
| Cebu Transport | 11 a k | 11 e w h i t e b a l l |
| Cebu Transport Ltd | 11 d 11 a k t o p a n d 11 11 a k a d s | 11 e d 11 c e n t r e 11 e 11 u l 11 e g l o b e 11 u p |
| Cebu | 11 11 11 a k t o 11 w h i t e 11 e 11 | 11 e l 11 11 11 a l s 11 11 a d 11 l u e 11 e 11 11 11 11 e 11 11 e |
| Elder De Visser | 11 u f f | W h i t e b u r g e e 11 e d 11 t G e o r g e s c r o s s c r o w n i n c e n t r e |
| Ellerman | 11 u f f 11 a k t o p w h i t e 11 a t | 11 l u e 11 u n t 11 11 e 11 e 11 11 e |
| Furness | 11 11 e 11 a k a n d t w o r e d 11 a d | 11 e 11 11 w h i t e |
| Gen Steam Navigation | 11 | 11 11 e |
| Glen | 11 | 11 |
| Houlder | 11 | 11 |
| Lang & Holt | 11 | 11 |
| Leys | 11 | 11 |
| Messageries Maritimes | 11 | 11 |
| Nederland | 11 | 11 |
| Nelson | 11 | 11 |
| Nellelands American | 11 | 11 |
| New Zealand S. Co. | 11 | 11 |
| Nippon Yusen K. | 11 a k | 11 |
| Oriental S. Co. | 11 e l o s | 11 |
| Pacific Steam Navigation | 11 u f f | 11 |
| P & O | 11 a k | 11 |
| Priest | 11 a k 11 e d e 11 e n a r r o w r e d 11 e d 11 W a l e s f e a t h e r s | 11 |
| Red Star | 11 11 w h i t e 11 a n d | W h i t e b u r g e e 11 e d e l s t a r |
| Rotterdam Lloyd | 11 a k | W h i t e w h i t e c r o s s o r e d g r o u n d s q u a r e (11 11 w h i t e) i n c e n t r e |
| R. M. S. P. Co. | 11 u f f | W h i t e r e d d i a g o n a l c r o s s a n d 11 e t c r o s s o n w h i t e s q u a r e |
| Shaw Savill & Albion | 11 u f f 11 a k t o 11 | 11 11 w i t h w h i t e s t a r s a n d 11 e r e d 11 11 11 u n t c r o s s |
| Solo Castle | 11 e d 11 a k t o p | 11 11 e c r o s s w h i t e d i a 11 e c r o s s w h i t e d i a |
| White Star | 11 11 11 a k t o 11 | 11 e d b u r g e e 11 e d 11 e |

| Name of ship | Flag | Dimensions | | | | | Date Year | Owners or Agents |
|---|------|------------|--------|---------|--------|-------------|----------------------------|------------------|
| | | Tonnage | Length | Breadth | Depth | Speed knots | | |
| Osterley ** | Br | 12 184 | 535 | 62 34 | 18 | 1909 | Orient Steam Nav Co Ltd | |
| Orlando *** | " | 20 072 | 632 | 75 32 | 20 | 1915 | " | |
| Pan America *** | U S | 13 712 | 517 | 72 27 | 17 | 1921 | Munson | |
| Paris *** | Fr | 34 569 | 735 | 85 59 | 22 | 1921 | Cie Genl Transatlantique | |
| Pela *** (ex Atheni) | N r | 12 356 | 500 | 63 45 | 13 | 1902 | Hvalfangerelsk Lelagoe | |
| Pennland *** | I | 16 322 | 573 | 67 41 | 16 | 1922 | Leyland Co Ltd | |
| Pennsylvania *** | U S | 22 000 | 585 | " | 1 | 1922 | American Line | |
| Peter Corpuz *** U I | Il I | 14 642 | 506 | 68 35 | 16 | 1923 | Norwegian L. | |
| Prtl *** | Pr | 2 692 | 510 | 61 42 | 12 2 | 1924 | Messageries Maritimes | |
| Presidente Cleveland *** | U S | 14 123 | 517 | 72 36 | 17 | 1921 | Dollar | |
| " Gra t *** | " | 14 119 | 517 | 72 27 | 17 | 1921 | Admiral Oriental | |
| " Hardt g *** | " | 13 869 | 516 | 72 27 | 18 | 1921 | Shipping Board | |
| " Ja ksoi *** | " | 14 124 | 517 | 72 27 | 17 | 1922 | Admiral Oriental | |
| " Jefferson *** | " | 14 174 | 516 | 72 27 | 17 | 1920 | " | |
| " Johnson *** (ex Ma churra) | " | 15 445 | 600 | 65 31 | 16 | 1904 | Dollar | |
| " Lincoln *** | " | 14 187 | 516 | 72 27 | 17 | 1921 | " | |
| " McKinley *** | " | 14 127 | 516 | 72 27 | 17 | 1921 | Admiral Oriental | |
| " Madison *** | " | 14 187 | 516 | 72 27 | 17 | 1921 | " | |
| " Pierce *** | " | 14 123 | 517 | 72 27 | 17 | 1921 | Dollar | |
| " Roosevelt *** | " | 13 869 | 516 | 72 27 | 18 | 1922 | Shipping Board | |
| " B Taft *** | " | 14 123 | 517 | 72 27 | 17 | 1921 | Dollar | |
| " Wilson *** | " | 14 127 | 516 | 72 27 | 17 | 1921 | " | |
| Presidente Wilson *** | Il I | 12 588 | 477 | 60 43 | 17 | 1922 | Cosulich Soc Trieste di N. | |
| Rajputana *** | I | 16 568 | 547 | 71 43 | 17 | 1926 | P & O | |
| Raschi *** | " | 16 650 | 548 | 71 43 | 17 1/2 | 1925 | " | |
| Rangitane m** | " | " | " | " | " | " | " | |
| Rangitata m** | " | " | " | " | " | " | " | |
| Ranitihi m** | " | " | " | " | " | " | " | |
| Ranpura *** | " | " | " | " | " | " | " | |
| Rawalindi *** | " | " | " | " | " | " | " | |
| Rendia *** | " | " | " | " | " | " | " | |
| Rellance *** (ex Johan Hri Cer rich Kurchard) | Cer | " | " | " | " | " | " | |
| Republic *** | U S | 17 910 | 599 | 68 48 | 14 | 1907 | U S Shipping Board | |
| Revolte *** (ex William Oswald) | Ger | 19 802 | 590 | 72 40 | 17 | 1920 | Hamburg Amerika | |
| Rijndam *** | Hol | 12 535 | 550 | 62 26 | 15 | 1901 | Holland Amerika | |
| Rochambeau ***** | Fr | 12 678 | 559 | 63 43 | 16 1/2 | 1921 | Cie Genl Transatlantique | |
| Roma *** | I | " | " | " | " | " | " | |
| Roussa *** | " | " | " | " | " | " | " | |
| Rotterdam *** | I | " | " | " | " | " | " | |
| Runic *** | " | " | " | " | " | " | " | |
| Saint Louis m** | (| " | " | " | " | " | " | |
| Samarina *** | " | " | " | " | " | " | " | |
| San Fabian * | " | " | " | " | " | " | " | |
| San Felix * | " | " | " | " | " | " | " | |
| San Fernando * | " | " | " | " | " | " | " | |
| San Florentin * | " | " | " | " | " | " | " | |
| San Gaspar * | " | " | " | " | " | " | " | |
| San Gerardo * | " | " | " | " | " | " | " | |
| San Melito .. | " | " | " | " | " | " | " | |
| Sarango | " | " | " | " | " | " | " | |
| Saturnus m** | " | " | " | " | " | " | " | |
| Saxon ** | " | " | " | " | " | " | " | |
| Savilla *** | " | " | " | " | " | " | " | |
| Savoio Maru *** | " | " | " | " | " | " | " | |
| Siljak *** | " | " | " | " | " | " | " | |
| Siam *** (ex St Nikolai) | " | " | " | " | " | " | " | |
| Southern Cross *** | " | " | " | " | " | " | " | |
| Southern Express (ex San Jeronimo) | " | " | " | " | " | " | " | |
| Staten lam** | " | " | " | " | " | " | " | |
| Stein gerter *** | " | " | " | " | " | " | " | |
| Stuttgart ** | " | " | " | " | " | " | " | |
| Swedish m** | " | " | " | " | " | " | " | |
| Taiyo Maru** (ex ap histerre) | " | " | " | " | " | " | " | |
| Tamarov *** | " | " | " | " | " | " | " | |
| Tatsuta Maru m*** | " | " | " | " | " | " | " | |

PACIFIC OCEAN GOING STEAMERS IN THE WORLD NOT UNDER 20,000 TONS
 - Mauretania Majestic, Leviathan, Aquitania, Berengaria, Olympic,
 - Campania, Lusitania, Adriatic, Mauretania, Empress of Asia,
 - Empress of Australia, Empress of Russia, Empress of France,
 - Empress of Germany, Empress of Italy, Empress of Japan,
 - Empress of Mexico, Empress of Peru, Empress of Spain,
 - Empress of Sweden, Empress of Norway, Empress of Denmark,
 - Empress of Prussia, Empress of Austria, Empress of Hungary,
 - Empress of Poland, Empress of Russia, Empress of Turkey,
 - Empress of Persia, Empress of India, Empress of China,
 - Empress of Japan, Empress of Korea, Empress of Manchuria,
 - Empress of Mongolia, Empress of Tibet, Empress of Siam,
 - Empress of Annam, Empress of Laos, Empress of Cambodia,
 - Empress of Vietnam, Empress of Laos, Empress of Cambodia,
 - Empress of Vietnam, Empress of Laos, Empress of Cambodia,

Empress of Russia, Empress of Turkey,
 Empress of Persia, Empress of India,
 Empress of China, Empress of Japan,
 Empress of Korea, Empress of Manchuria,
 Empress of Mongolia, Empress of Tibet,
 Empress of Siam, Empress of Annam,
 Empress of Laos, Empress of Cambodia,
 Empress of Vietnam, Empress of Laos,
 Empress of Cambodia, Empress of Vietnam,

WORLD

| Owner | Line | Tonnage (1913) | Belonging to | Name of Ship | Tonnage | Remarks |
|--------------------------|------|-------------------|---------------|--------------------|---------|-----------------|
| *Leading Co | 44 | 43,000 | Philadelphia | Camron | 1,280 | Own 13 Steamers |
| *Lowell & Thurlow | 47 | 35,196 | Boston | John Flood Kregger | 1,238 | Own 11 Steamers |
| *Southern Trans. Inc. | 48 | 37,000 | Philadelphia | Lohrstedt | 1,236 | Own 11 Steamers |
| *Dougherty P. & Co. Inc. | 45 | 27,740 | Baltimore | Montgomery | 1,207 | Own 11 Steamers |
| Alaska Packers Ass'n | 42 | 27,167 | San Francisco | Star of Lapland | 1,281 | Own 11 Steamers |
| Ernkson Gustaf | 41 | 29,000 | Finland | Herrugin Leslie | 1,211 | Own 11 Steamers |
| Dallas, R. Co. Inc. | 40 | 23,000 | San Francisco | Mae Dollar | 1,236 | Own 11 Steamers |
| *Staples Coal Co. | 39 | 23,000 | New York | Bainmouth | 1,255 | Own 11 Steamers |
| *Neptune Line Inc. | 38 | 27,000 | New York | I. F. Chapman | 1,291 | Own 11 Steamers |
| Laerz Readerel & | 37 | 20,000 | Hamburg | Peking | | |

* All 8-10-12-14-16-18-20-22-24-26-28-30-32-34-36-38-40-42-44-46-48-50-52-54-56-58-60-62-64-66-68-70-72-74-76-78-80-82-84-86-88-90-92-94-96-98-100-102-104-106-108-110-112-114-116-118-120-122-124-126-128-130-132-134-136-138-140-142-144-146-148-150-152-154-156-158-160-162-164-166-168-170-172-174-176-178-180-182-184-186-188-190-192-194-196-198-200-202-204-206-208-210-212-214-216-218-220-222-224-226-228-230-232-234-236-238-240-242-244-246-248-250-252-254-256-258-260-262-264-266-268-270-272-274-276-278-280-282-284-286-288-290-292-294-296-298-300-302-304-306-308-310-312-314-316-318-320-322-324-326-328-330-332-334-336-338-340-342-344-346-348-350-352-354-356-358-360-362-364-366-368-370-372-374-376-378-380-382-384-386-388-390-392-394-396-398-400-402-404-406-408-410-412-414-416-418-420-422-424-426-428-430-432-434-436-438-440-442-444-446-448-450-452-454-456-458-460-462-464-466-468-470-472-474-476-478-480-482-484-486-488-490-492-494-496-498-500-502-504-506-508-510-512-514-516-518-520-522-524-526-528-530-532-534-536-538-540-542-544-546-548-550-552-554-556-558-560-562-564-566-568-570-572-574-576-578-580-582-584-586-588-590-592-594-596-598-600-602-604-606-608-610-612-614-616-618-620-622-624-626-628-630-632-634-636-638-640-642-644-646-648-650-652-654-656-658-660-662-664-666-668-670-672-674-676-678-680-682-684-686-688-690-692-694-696-698-700-702-704-706-708-710-712-714-716-718-720-722-724-726-728-730-732-734-736-738-740-742-744-746-748-750-752-754-756-758-760-762-764-766-768-770-772-774-776-778-780-782-784-786-788-790-792-794-796-798-800-802-804-806-808-810-812-814-816-818-820-822-824-826-828-830-832-834-836-838-840-842-844-846-848-850-852-854-856-858-860-862-864-866-868-870-872-874-876-878-880-882-884-886-888-890-892-894-896-898-900-902-904-906-908-910-912-914-916-918-920-922-924-926-928-930-932-934-936-938-940-942-944-946-948-950-952-954-956-958-960-962-964-966-968-970-972-974-976-978-980-982-984-986-988-990-992-994-996-998-1000-1002-1004-1006-1008-1010-1012-1014-1016-1018-1020-1022-1024-1026-1028-1030-1032-1034-1036-1038-1040-1042-1044-1046-1048-1050-1052-1054-1056-1058-1060-1062-1064-1066-1068-1070-1072-1074-1076-1078-1080-1082-1084-1086-1088-1090-1092-1094-1096-1098-1100-1102-1104-1106-1108-1110-1112-1114-1116-1118-1120-1122-1124-1126-1128-1130-1132-1134-1136-1138-1140-1142-1144-1146-1148-1150-1152-1154-1156-1158-1160-1162-1164-1166-1168-1170-1172-1174-1176-1178-1180-1182-1184-1186-1188-1190-1192-1194-1196-1198-1200-1202-1204-1206-1208-1210-1212-1214-1216-1218-1220-1222-1224-1226-1228-1230-1232-1234-1236-1238-1240-1242-1244-1246-1248-1250-1252-1254-1256-1258-1260-1262-1264-1266-1268-1270-1272-1274-1276-1278-1280-1282-1284-1286-1288-1290-1292-1294-1296-1298-1300-1302-1304-1306-1308-1310-1312-1314-1316-1318-1320-1322-1324-1326-1328-1330-1332-1334-1336-1338-1340-1342-1344-1346-1348-1350-1352-1354-1356-1358-1360-1362-1364-1366-1368-1370-1372-1374-1376-1378-1380-1382-1384-1386-1388-1390-1392-1394-1396-1398-1400-1402-1404-1406-1408-1410-1412-1414-1416-1418-1420-1422-1424-1426-1428-1430-1432-1434-1436-1438-1440-1442-1444-1446-1448-1450-1452-1454-1456-1458-1460-1462-1464-1466-1468-1470-1472-1474-1476-1478-1480-1482-1484-1486-1488-1490-1492-1494-1496-1498-1500-1502-1504-1506-1508-1510-1512-1514-1516-1518-1520-1522-1524-1526-1528-1530-1532-1534-1536-1538-1540-1542-1544-1546-1548-1550-1552-1554-1556-1558-1560-1562-1564-1566-1568-1570-1572-1574-1576-1578-1580-1582-1584-1586-1588-1590-1592-1594-1596-1598-1600-1602-1604-1606-1608-1610-1612-1614-1616-1618-1620-1622-1624-1626-1628-1630-1632-1634-1636-1638-1640-1642-1644-1646-1648-1650-1652-1654-1656-1658-1660-1662-1664-1666-1668-1670-1672-1674-1676-1678-1680-1682-1684-1686-1688-1690-1692-1694-1696-1698-1700-1702-1704-1706-1708-1710-1712-1714-1716-1718-1720-1722-1724-1726-1728-1730-1732-1734-1736-1738-1740-1742-1744-1746-1748-1750-1752-1754-1756-1758-1760-1762-1764-1766-1768-1770-1772-1774-1776-1778-1780-1782-1784-1786-1788-1790-1792-1794-1796-1798-1800-1802-1804-1806-1808-1810-1812-1814-1816-1818-1820-1822-1824-1826-1828-1830-1832-1834-1836-1838-1840-1842-1844-1846-1848-1850-1852-1854-1856-1858-1860-1862-1864-1866-1868-1870-1872-1874-1876-1878-1880-1882-1884-1886-1888-1890-1892-1894-1896-1898-1900-1902-1904-1906-1908-1910-1912-1914-1916-1918-1920-1922-1924-1926-1928-1930-1932-1934-1936-1938-1940-1942-1944-1946-1948-1950-1952-1954-1956-1958-1960-1962-1964-1966-1968-1970-1972-1974-1976-1978-1980-1982-1984-1986-1988-1990-1992-1994-1996-1998-2000-2002-2004-2006-2008-2010-2012-2014-2016-2018-2020-2022-2024-2026-2028-2030-2032-2034-2036-2038-2040-2042-2044-2046-2048-2050-2052-2054-2056-2058-2060-2062-2064-2066-2068-2070-2072-2074-2076-2078-2080-2082-2084-2086-2088-2090-2092-2094-2096-2098-2100-2102-2104-2106-2108-2110-2112-2114-2116-2118-2120-2122-2124-2126-2128-2130-2132-2134-2136-2138-2140-2142-2144-2146-2148-2150-2152-2154-2156-2158-2160-2162-2164-2166-2168-2170-2172-2174-2176-2178-2180-2182-2184-2186-2188-2190-2192-2194-2196-2198-2200-2202-2204-2206-2208-2210-2212-2214-2216-2218-2220-2222-222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THE LARGEST MOTOR SHIP OWNERS

Owners or Lines

Head Office

Owners or Lines

Head Office

Not less than 50,000 tons each

| | | | |
|-----------------------------------|-----------|--------------------------------------|-------------|
| Anlo-Saxon Petroleum Co. Ltd. | London | Peru & Ezer | Oporto |
| Baltic American Line | London | Peru & Ezer Corp. | Michigan |
| Billy Line & Co. | Liverpool | Peru & Ezer Int'l Shipping Sel. Ltd. | Copenhagen |
| British Tanker Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | New York |
| Carlsen & Co. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | Hamburg |
| Comwealth & Dominion Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Cornwall & Co. Trieste & Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | Bremen |
| Dodd Thomson & Co. Ltd. | Liverpool | Peru & Ezer Int'l Shipping Sel. Ltd. | Helsingborg |
| Eller Dempster & Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | Newcastle |
| Ellsworth W. B. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Furness Withy & Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Glen Line Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Grampian & Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Gulf Petroleum Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Hamburg America | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Holt, A. & Co. | Liverpool | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| J. H. & Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Lloyd Triestino | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Nor. Generale Italia | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Nederlandsche Line | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Oceanic & Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Pacific Steam Nav. Co. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| R.M. & P. Meat Transports Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Pays Wm. & Sons | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Thompson & Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| United Mails & Co. Ltd. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Wear Andrew & Co. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Westfal Larsen & Co. | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |
| Wilhelmisen Wilhelm | London | Peru & Ezer Int'l Shipping Sel. Ltd. | London |

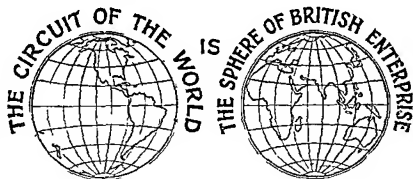
Under 50,000 tons but
than 20,000 tons each

Atlantic Line, Co.
Atlantic Tank Leasing
Borin & Co.
British India Steam Nav.
Carter & Co. James & Co.
Criste & Co. Ivar & Co.
Cia. Nacio al de Navegac.

LONDON OFFICES OR AGENCIES OF THE PRINCIPAL LINES

At present the following lines are in operation: Booth Line The Booth Steamship Co. Ltd.
at Adelphi Terrace W.C. Tel. No. 100
Mar 2601

Monument 288
Anglo-American Oil Co. Ltd.
Anna Gate Westminster 4
VI. 1011 6325
Anglo-Saxon Petroleum Co. Ltd.
at Adelphi Terrace W.C. Tel. No. 100



“WHITAKER”
 ADVERTISEMENTS
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SCHOOL,
WIMBLEDON COMMON,
S.W.**

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i. n. d. v. i. d. u. a. l. e. s. v. t. i. l. a.
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N. e. g. l. r. h. o. d.
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100 ft. 100 ft.

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HINDHEAD (Surrey) 3 miles from Haslemere Station

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Instruct
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Boarders only
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Facing the sea. All final arrangements

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A PREPARATORY SCHOOL FOR BOYS

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RUH OF ENGLAND PREPARATION
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training.

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BOYS

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Fees moderate

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(Houses Class 12)

Mr Lloyd prepares boys, 7-14 for Public

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The town is well sewered

TAUNTON SCHOOL

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Fee £30 per Term inclusive No extras whatever
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no Tennis Courts.
spectus from the Headmistress.

TORQUAY.

Medical Officer of Health writes—Sunshine, temperature, dryness of the air and sea of fog. Excellent arrangement, swimming baths medical Turkish baths. Sunshine (1928) 2,415 hours.
Pop. 39,432 (See p. xciii for HOLIDAY GUIDE.)

LAURISTON HALL

Miss E. VICCARS
Miss E. VICCARS.
High healthy position Beautiful grounds.
Good education. Careful Mental, Moral, and Physical Training.
Music, Art, Literature and Languages.
Well-equipped Swedish Gymnasium. Physical education carefully supervised. Fencing special feature.
Ideal for children who have been born in tropical countries.
Fees—30 to 40 guineas per term.

**ROYAL
TUNBRIDGE WELLS.**

The Medical Officer of Health writes — Sunlit
from dawn till dusk, the air is pure and healthy,
the climate is dry and bracing, the water is
excellent for medicinal purposes. The climate
is a health-giver with a low average rainfall.

ROSE HILL SCHOOL,

Principal Mr P SAUNDERS JOHNSON B.A.

Miss Mabel P
Principal

Preparatory
for the
County
Boys' & Girls'
for Public
Playground

WELLINGTON.

The Medical Officer of Health writes — Well-
ington is a town situated at an elevation of 1,000 feet
in the northern part of the Ercall Hills.
The climate is bracing and healthy. The climate
is a health-giver with a low average rainfall.

**BELMONT HALL SCHOOL
WELLINGTON SHROPSHIRE**

Principal
CAPTAIN A J PROOME

WATCHET**WESTBURY****S. DECUMAN'S SCHOOL**

Principal

BOYS

(Founded 1844)

**VICTORIA COLLEGE,
WESTBURY WILTS****WATFORD**

(Hertfordshire) The Medical Officer of Health

WESTGATE-ON-SEA.

BOYS

SHIRLEY HOUSE SCHOOL

Principal Mr P SAUNDERS JOHNSON B.A.

GIRLS

ETHANDENE.

WESTON-SUPER-MARE.

WORKING

derivative
in solid
wood
is better

FOR THE U.S. DEPT. OF AGRICULTURE

15

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WORCESTER.

PHILIP
COLEMAN (1911-1981)

COLLECT FOR THE BIBLE
EDUCATION OF THE YOUTH

Tennis, Hockey, Swimming, Guides
No term or enrollment fees

WINDERMERE.

Business Careers.
"Boat House on the Severn" Swimming Bath
St. Mary's.

WORKINGTON

Officer of Health
in the Coast of U.
Carlsbad Avenue
Medical Temporary
Surgeon. For West
each of the Lakes."

GIRLS

**ST. ANNE'S SCHOOL,
BROWHEAD, WINDERMERE**

BROWHEAD, WINDEMERE
A private boarding school for 100 pupils

NOTES AND QUERIES

AND GIRL
CRAIG BANK,
WORKINGTON, CUMBERLAND
P THE LAKE DISTRICT
7 BOWWAY BIRCH AVE
STAN HILL

1 for girls and 1 for boys.
e term.
Upper and Lower sub side.

Principals - { S HELEN LEIGH
EDITH M MORRISON, M A
PITTSBURGH, PA
(F or girls under 18 years of age),
ELLERAY, WINDERMERE

Apply Principal Mrs. F. CLARKSON
 Medical supervision Excellent food
 Preparation for Entrance and other exams
 Tennis, Drill, Music etc

WORTHING.

The Medical Officer of Health writes — "South Coast is not so hot as it is said to be. The climate is healthy and the air is pure. The sea is bracing and the water is well lit and kept very clean. Good draughts of sea water are available. The sea is bracing and the water is well lit and kept very clean. The place generally is well adapted to the requirements of the health. The winter temperature compares favourably with the winter temperature of the south coast. A select seaside resort, residential town and winter home for invalids. Worthing is well situated in the wide bay with a sweep away east of Selsey Hill and terraces beyond Brighton in the bold promontory of Beach Head." (See p. xlv for HOLIDAY GUIDE.)

B. TH. SOMPTING ABBOTS.

(Two miles from Worthing)

Principal A. C. RUTHERFORD B.A. (Oxon).

PREPARATORY (6 to 15) FOR PUBLIC SCHOOLS AND ROYAL NAVY

The school is a day school and is open to boys of all ages.

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The school is a day school and is open to boys of all ages.

GIRLS' CHURCH HOUSE SCHOOL.

Principal - Miss FISHER
Miss MORTIMER

RESIDENT SCHOOL FOR DAUGHTERS OF GENTLEMEN

Extensive School Premises in best part of

Character

Preparation for all Examinations thorough Musical Education Swedish Drill Tennis Hockey Netball

Fees in charge of 1/2 level cre parents are abroad

"WHERE TO STAY."

WHITAKER'S CLASSIFIED INDEX-DIRECTORY

TO

WHITAKER'S HOLIDAY GUIDE

| LOCAL GUIDES | Harrowgate Worthing | F. J. C. Broome | 88 Royal Batts Harrogate 16, Municipal Offices | PAUL LXXXI |
|-------------------|---|---|--|-------------------------------|
| HOTELS (licensed) | Canal Bridge Canterbury Edinburg Malvern Olton Ripon Ryde Straton | University Arms Hotel Royal Fountain Hotel The Queen Hotel Somerset Hotel Foley Arms Hotel Great Western Hotel Lincum Hotel Royal Regent Hotel Royal Clarence Hotel | M. D. Bradford E. C. Large J. W. and J. M. Gunn C. W. Fitcham H. T. W. Carron Alex. M. regent G. H. H. H. Frank Band A. F. Goddard | LXXXI LXXXI LXXXI LXXXI LXXXI |

"WHERE TO STAY" (continued)

| | | | |
|-------------------|--------------|--------------------------|-------------------|
| HOTELS | Hoggar Regie | Rock Gardens Hotel | F Pullin |
| {Un- | Lowestoft | Esplanade Hotel | Mr and Mrs Jenner |
| licensed). | Newquay | Talcarnie Hotel | Ordnance Farmer |
| | Taunton | Marina Residential Hotel | F W Parsons |
| | Leamington | Derwent Hotel | L. Ollier |
| | Weymouth | Looe Hotel | Miss M. E. Allen |

[illegible][illegible][illegible]

BOSCOMBE, HANTS (In Borough of Bournemouth.) Occupies naturally beautiful sheltered position, at good elevation. Overlooking sea. Good bathing. Fair.

GODWIN PRATT AND REA Estate Agents, Auctioneers and Valuers, 506 Christchurch Road Bournemouth. A selected list of Properties to be sold or Let, furnished or unfurnished, forwarded free upon application. Telephone Bournemouth 713.

BOURNEMOUTH, HANTS CB. Pop 91,270. 107½ miles from London. L & S Railway and Southern Railway. Aspect—South. Climate—Mild. equal to temperature. Sunshine (1928) 1,798 hours. Soil—Sand and gravel. Beach—Sandy & currents. A fashionable South Coast health resort extending along a stretch of nine miles of cliffs in the wide open bay which forms the western extremity of Hampshire. It owes its prosperity to the natural beauty of its situation, its climatic advantages and the purity of its air. A town with the aromatic health giving exhalations of its innumerable pine trees. 2 Golf links, 19 holes. 3 large parks. Good educational facilities. [See p. 121 for SCHOOLS.]

BRIGHTON, SUSSEX. Pop 142,427. Means of access—Southern Railway 5½ miles from London. Elevation 26 to 462 feet. Aspect—South. Sunshine (1928), 1,924 hours. Soil—Chill. In towns ornamental terrace walks. Port of Londoners. Development of it and resembles the thereto excellent trial and amusing all tastes and all classes of people. Harriers foxhounds county cricket and fishing. Royal Pavilion, opera a Foy's public library, museums, art galleries. [See p. 121 for SCHOOLS.]

CAMBRIDGE, County Lough. Pop 59,262. Means of Access—L. & N.E. Railway and L.M. & S. Railway. Elevation—33 feet above sea level. Water Supply—Constant. Drainage—Modern. Soil—Chalk gault gravel and alluvial deposits. The famous University on the River Cam originated in 1220. It comprises about seventeen colleges and two halls the venerable buildings being of great architectural and historic interest. Boating fishing golf (18 holes), hunting shooting etc.

UNIVERSITY ARMS HOTEL, LTD.

The Premier Hotel of Cambridge.

UNRIVALLED POSITION. CLOSE TO THE COLLEGES.

FINEST CUISINE. NIGHT PORTER. GARAGE CAPS ON HIEP.

New Wing added 1926. Many Bedrooms contain Private Baths and Toilet. 138 Running Water in Bedrooms.

Office Telephone 87. Visitors Telephone, 2223 (2 lines).

M. D. BRADFORD, General Director

CANTERBURY, KENT. Seat of the Primate of All England. Pop 23,738. Southern Railway 55 miles from London. Aspect—S.W. Climate—Mild and dry. Soil—Clay with gravel. Canterbury Cathedral is a monumental sanctuaries of world wide interest. [See p. 121 for SCHOOLS.]

ROYAL FOUNTAIN HOTEL.

A & THE OLDEST FIRST-CLASS FAMILY HOTEL IN THE CITY.

Close to Cathedral and both Stations.

CENTRAL HEATING. 12 LOCK-UP GARAGES. TABLE D'HOTE LUNCHEONS AND DINNERS DAILY.

Telephone 225

F. C. LARGE, Proprietor

ENGLISH LAKES.

The English Lakes District is one of the most attractive to tourists and holiday seekers, it is rich in literary and historical associations, affords a unique combination of mountains, lakes, rivers and seas. It is rendered easily accessible by modern railway enterprise, the entire area being covered by a well arranged system of tourist specially designed for the ever increasing number of pleasure seekers in search of some of the gems of English beauty spots.

(See p. lxxvii for details)

WINDERMERE.

Centrally situated at a con-
spicuous lake for
access—1 M & 1/2
to mountains in

turning of houses
built in granite
187

EXMOUTH, DEVON U.D.C. Pop. 13,000. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 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[See p. lxxx for 8 Hotels]

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[See p. lxxiii for schools]

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| Place | Aug | | | | Sept | | | | Oct | | | | Nov | | | | Dec | | | | Year | | | | |
|---------------|------|------|-----|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | Temp | | Sun | | Temp | | Sun | | Temp | | Sun | | Temp | | Sun | | Temp | | Sun | | Temp | | Sun | | |
| | F | C | % | h | F | C | % | h | F | C | % | h | F | C | % | h | F | C | % | h | F | C | % | h | |
| Aberdeen | 55.5 | 13.1 | 24 | 38 | 51.7 | 11.0 | 35 | 47.8 | 47.8 | 26 | 39.1 | 20 | 46.3 | 27 | 43.1 | 20 | 46.3 | 27 | 43.1 | 20 | 46.3 | 27 | 43.1 | 20 | |
| Edinburgh | 53.3 | 12.4 | — | 45 | 48.5 | 9.2 | — | 43.5 | — | 40.2 | — | 34.5 | — | 40.2 | — | 34.5 | — | 40.2 | — | 34.5 | — | 40.2 | — | 34.5 | — |
| Glasgow | 61.1 | 16.2 | 41 | 55.7 | 52 | 52.2 | 37 | 47.5 | 28 | 38.4 | 17 | 50.8 | 31 | 47.5 | 28 | 38.4 | 17 | 50.8 | 31 | 47.5 | 28 | 38.4 | 17 | 50.8 | 31 |
| Firmenich | 59.9 | 15.5 | 42 | 55.5 | 41 | 50.1 | 31 | 45.3 | 19 | 37.7 | 13 | 49.1 | 31 | 45.3 | 19 | 37.7 | 13 | 49.1 | 31 | 45.3 | 19 | 37.7 | 13 | 49.1 | 31 |
| Blackpool | 60.0 | 15.6 | — | 55.3 | — | 50.5 | 29 | 45.9 | 20 | 39.7 | 15 | 49.4 | 31 | 45.9 | 20 | 39.7 | 15 | 49.4 | 31 | 45.9 | 20 | 39.7 | 15 | 49.4 | 31 |
| Bournemouth | 61.0 | 16.1 | 41 | 50.3 | 64 | 53.8 | 40 | 48.0 | 25 | 39.9 | 25 | 50.9 | 41 | 48.0 | 25 | 39.9 | 25 | 50.9 | 41 | 48.0 | 25 | 39.9 | 25 | 50.9 | 41 |
| Brighton | 58.6 | 14.8 | 35 | 53.9 | 29 | 50.1 | 10 | 45.1 | 19 | 37.0 | 11 | 47.7 | 26 | 45.1 | 19 | 37.0 | 11 | 47.7 | 26 | 45.1 | 19 | 37.0 | 11 | 47.7 | 26 |
| Bournemouth | 64.5 | 18.6 | 50 | 58.4 | 64 | 53.9 | 35 | 49.3 | 25 | 40.5 | 24 | 51.7 | 41 | 49.3 | 25 | 40.5 | 24 | 51.7 | 41 | 49.3 | 25 | 40.5 | 24 | 51.7 | 41 |
| Bournemouth | 55.9 | 13.3 | 37 | 51.5 | 36 | 46.9 | 30 | 43.1 | 12 | 35.5 | 7 | 45.7 | 26 | 43.1 | 12 | 35.5 | 7 | 45.7 | 26 | 43.1 | 12 | 35.5 | 7 | 45.7 | 26 |
| Bournemouth | 60.6 | 16.0 | 41 | 55.7 | 55 | 50.8 | 40 | 46.0 | 28 | 37.5 | 20 | 49.8 | 31 | 46.0 | 28 | 37.5 | 20 | 49.8 | 31 | 46.0 | 28 | 37.5 | 20 | 49.8 | 31 |
| Cardiff | 60.0 | 15.6 | 42 | 55.9 | 52 | 51.7 | 37 | 47.1 | 27 | 39.2 | 19 | 49.9 | 31 | 47.1 | 27 | 39.2 | 19 | 49.9 | 31 | 47.1 | 27 | 39.2 | 19 | 49.9 | 31 |
| Chelmsford | 61.2 | 16.3 | 38 | 56.5 | 47 | 51.8 | 35 | 46.6 | 22 | 39.2 | 17 | 50.7 | 34 | 46.6 | 22 | 39.2 | 17 | 50.7 | 34 | 46.6 | 22 | 39.2 | 17 | 50.7 | 34 |
| Chelmsford | 62.3 | 16.6 | 46 | 58.9 | 62 | 53.1 | 38 | 47.2 | 25 | 39.7 | 23 | 50.5 | 41 | 47.2 | 25 | 39.7 | 23 | 50.5 | 41 | 47.2 | 25 | 39.7 | 23 | 50.5 | 41 |
| Colwyn Bay | 60.3 | 15.7 | 39 | 57.0 | 41 | 53.1 | 24 | 48.1 | 21 | 41.4 | 11 | 51.1 | 31 | 48.1 | 21 | 41.4 | 11 | 51.1 | 31 | 48.1 | 21 | 41.4 | 11 | 51.1 | 31 |
| Cove | 60.9 | 16.1 | 41 | 56.0 | 43 | 50.3 | 31 | 45.5 | 22 | 37.9 | 10 | 49.9 | 31 | 45.5 | 22 | 37.9 | 10 | 49.9 | 31 | 45.5 | 22 | 37.9 | 10 | 49.9 | 31 |
| Cromer | 61.5 | 16.4 | 43 | 58.3 | 57 | 51.1 | 34 | 47.3 | 26 | 39.7 | 20 | 50.3 | 39 | 47.3 | 26 | 39.7 | 20 | 50.3 | 39 | 47.3 | 26 | 39.7 | 20 | 50.3 | 39 |
| Douglas | 57.0 | 13.9 | 41 | 54.3 | 47 | 50.9 | 28 | 46.5 | 24 | 41.1 | 19 | 48.7 | 26 | 46.5 | 24 | 41.1 | 19 | 48.7 | 26 | 46.5 | 24 | 41.1 | 19 | 48.7 | 26 |
| Dublin | 57.1 | 13.9 | 42 | 53.6 | 39 | 52.8 | 34 | 45.5 | 27 | 40.6 | 18 | 48.6 | 34 | 45.5 | 27 | 40.6 | 18 | 48.6 | 34 | 45.5 | 27 | 40.6 | 18 | 48.6 | 34 |
| Dunfermline | 57.5 | 14.2 | 25 | 52.1 | 38 | 47.0 | 26 | 43.9 | 26 | 38.3 | 22 | 46.9 | 28 | 43.9 | 26 | 38.3 | 22 | 46.9 | 28 | 43.9 | 26 | 38.3 | 22 | 46.9 | 28 |
| Eastbourne | 62.4 | 16.7 | 53 | 58.5 | 63 | 54.3 | 35 | 49.6 | 25 | 41.2 | 26 | 51.5 | 45 | 49.6 | 25 | 41.2 | 26 | 51.5 | 45 | 49.6 | 25 | 41.2 | 26 | 51.5 | 45 |
| Edinburgh | 57.1 | 13.9 | 28 | 53.3 | 42 | 48.2 | 34 | 44.7 | 25 | 38.7 | 22 | 46.9 | 30 | 44.7 | 25 | 38.7 | 22 | 46.9 | 30 | 44.7 | 25 | 38.7 | 22 | 46.9 | 30 |
| Falmouth | 61.3 | 16.3 | 47 | 58.9 | 52 | 54.3 | 37 | 49.7 | 22 | 44.4 | 17 | 52.5 | 35 | 49.7 | 22 | 44.4 | 17 | 52.5 | 35 | 49.7 | 22 | 44.4 | 17 | 52.5 | 35 |
| Felixstowe | 62.3 | 16.6 | 45 | 58.3 | 63 | 52.9 | 40 | 47.5 | 30 | 39.9 | 20 | 50.5 | 43 | 47.5 | 30 | 39.9 | 20 | 50.5 | 43 | 47.5 | 30 | 39.9 | 20 | 50.5 | 43 |
| Felixstowe | 58.1 | 14.5 | — | 53.7 | — | 48.9 | — | 44.8 | — | 39.8 | — | 47.9 | — | 48.9 | — | 44.8 | — | 39.8 | — | 47.9 | — | 48.9 | — | 44.8 | — |
| Chernobyl | 62.4 | 16.7 | 52 | 61.0 | 68 | 55.7 | 46 | 51.2 | 39 | 43.3 | 21 | 53.1 | 45 | 51.2 | 39 | 43.3 | 21 | 53.1 | 45 | 51.2 | 39 | 43.3 | 21 | 53.1 | 45 |
| Harrgate | 58.1 | 14.5 | 37 | 53.8 | 40 | 48.6 | 31 | 44.9 | 25 | 37.5 | 18 | 47.4 | 32 | 44.9 | 25 | 37.5 | 18 | 47.4 | 32 | 44.9 | 25 | 37.5 | 18 | 47.4 | 32 |
| Hastings | 62.1 | 16.6 | 53 | 58.5 | 63 | 53.5 | 35 | 49.1 | 25 | 41.0 | 25 | 52.4 | 44 | 49.1 | 25 | 41.0 | 25 | 52.4 | 44 | 49.1 | 25 | 41.0 | 25 | 52.4 | 44 |
| Hull | 60.9 | 16.1 | 38 | 56.1 | 40 | 50.6 | 31 | 46.1 | 19 | 38.3 | 17 | 49.4 | 30 | 46.1 | 19 | 38.3 | 17 | 49.4 | 30 | 46.1 | 19 | 38.3 | 17 | 49.4 | 30 |
| Leamington | 60.4 | 16.0 | — | — | — | 50.3 | 30 | 45.6 | 20 | 37.6 | 11 | 49.6 | 30 | 50.3 | 30 | 45.6 | 20 | 37.6 | 11 | 49.6 | 30 | 50.3 | 30 | 45.6 | 20 |
| Lincoln | 60.7 | 16.0 | — | 55.6 | — | 50.8 | — | 45.7 | — | 37.1 | — | 49.5 | — | 50.8 | — | 45.7 | — | 37.1 | — | 49.5 | — | 50.8 | — | 45.7 | — |
| Littlehampton | 61.0 | 16.1 | — | 56.8 | — | 51.1 | — | 46.1 | — | 40.5 | — | 50.6 | — | 51.1 | — | 46.1 | — | 40.5 | — | 50.6 | — | 51.1 | — | 46.1 | — |
| Liverpool | 59.1 | 15.1 | 36 | 55.4 | 41 | 50.7 | 30 | 46.3 | 20 | 39.7 | 14 | 49.3 | 32 | 46.3 | 20 | 39.7 | 14 | 49.3 | 32 | 46.3 | 20 | 39.7 | 14 | 49.3 | 32 |
| London | 60.1 | 16.2 | 37 | 56.5 | 43 | 51.3 | 30 | 46.7 | 22 | 42.5 | 12 | 50.7 | 34 | 46.7 | 22 | 42.5 | 12 | 50.7 | 34 | 46.7 | 22 | 42.5 | 12 | 50.7 | 34 |
| London (West) | 62.9 | 16.6 | 43 | 58.9 | 53 | 53.3 | 32 | 48.5 | 17 | 40.3 | 8 | 52.2 | 35 | 48.5 | 17 | 40.3 | 8 | 52.2 | 35 | 48.5 | 17 | 40.3 | 8 | 52.2 | 35 |
| Malvern | 61.0 | 16.1 | 41 | 55.9 | 47 | 50.9 | 37 | 46.1 | 21 | 38.0 | 21 | 49.9 | 35 | 46.1 | 21 | 38.0 | 21 | 49.9 | 35 | 46.1 | 21 | 38.0 | 21 | 49.9 | 35 |
| Manchester | 59.5 | 15.3 | 28 | 56.5 | 49 | 50.3 | 25 | 45.5 | 9 | 38.8 | 4 | 49.5 | 24 | 45.5 | 9 | 38.8 | 4 | 49.5 | 24 | 45.5 | 9 | 38.8 | 4 | 49.5 | 24 |
| Marazion | 63.5 | 17.5 | 50 | 60.3 | 69 | 53.9 | 31 | 49.5 | 24 | 41.4 | 21 | 51.9 | 44 | 49.5 | 24 | 41.4 | 21 | 51.9 | 44 | 49.5 | 24 | 41.4 | 21 | 51.9 | 44 |
| Marazion | 58.5 | 14.7 | 43 | 51.0 | 57 | 46.6 | 36 | 43.9 | 22 | 37.5 | 14 | 48.5 | 32 | 43.9 | 22 | 37.5 | 14 | 48.5 | 32 | 43.9 | 22 | 37.5 | 14 | 48.5 | 32 |
| Newbury | 60.5 | 16.2 | 44 | 57.3 | 58 | 53.7 | 37 | 49.0 | 19 | 43.9 | 14 | 51.5 | 35 | 49.0 | 19 | 43.9 | 14 | 51.5 | 35 | 49.0 | 19 | 43.9 | 14 | 51.5 | 35 |
| Norwich | 61.1 | 16.2 | 40 | 56.7 | 56 | 52.2 | 35 | 46.9 | 25 | 38.9 | 24 | 50.1 | 40 | 46.9 | 25 | 38.9 | 24 | 50.1 | 40 | 46.9 | 25 | 38.9 | 24 | 50.1 | 40 |
| Nottingham | 60.5 | 16.1 | 37 | 55.9 | 41 | 50.5 | 32 | 45.5 | 19 | 37.7 | 10 | 49.3 | 30 | 45.5 | 19 | 37.7 | 10 | 49.3 | 30 | 45.5 | 19 | 37.7 | 10 | 49.3 | 30 |
| Oxford | 60.7 | 16.1 | 37 | 56.3 | 54 | 51.4 | 37 | 46.8 | 25 | 38.3 | 17 | 50.4 | 37 | 46.8 | 25 | 38.3 | 17 | 50.4 | 37 | 46.8 | 25 | 38.3 | 17 | 50.4 | 37 |
| Padstow | — | — | — | 57.3 | — | 54.3 | — | 49.9 | — | 43.5 | — | 52.1 | — | 54.3 | — | 49.9 | — | 43.5 | — | 52.1 | — | 54.3 | — | 49.9 | — |
| Penzance | 60.7 | 16.0 | — | 59.3 | — | 55.2 | — | 51.2 | — | 46.2 | — | 53.1 | — | 55.2 | — | 51.2 | — | 46.2 | — | 53.1 | — | 55.2 | — | 51.2 | — |
| Plymouth | 60.7 | 16.0 | 44 | 58.2 | 45 | 54.8 | 37 | 49.3 | 22 | 44.0 | 18 | 52.4 | 39 | 49.3 | 22 | 44.0 | 18 | 52.4 | 39 | 49.3 | 22 | 44.0 | 18 | 52.4 | 39 |
| Roos-on-Wye | 60.4 | 16.0 | 42 | 55.1 | 44 | 51.3 | 31 | 46.8 | 22 | 38.5 | 22 | 50.1 | 34 | 46.8 | 22 | 38.5 | 22 | 50.1 | 34 | 46.8 | 22 | 38.5 | 22 | 50.1 | 34 |
| Scarborough | 60.1 | 16.0 | 39 | 56.7 | 40 | 50.7 | 32 | 47.1 | 22 | 40.1 | 20 | 49.0 | 34 | 47.1 | 22 | 40.1 | 20 | 49.0 | 34 | 47.1 | 22 | 40.1 | 20 | 49.0 | 34 |
| Seilly | 61.1 | 16.2 | 51 | 59.5 | 56 | 55.1 | 41 | 50.9 | 24 | 46.9 | 18 | 52.8 | 42 | 50.9 | 24 | 46.9 | 18 | 52.8 | 42 | 50.9 | 24 | 46.9 | 18 | 52.8 | 42 |
| Sheffield | 59.8 | 15.4 | 37 | — | — | 50.0 | 31 | 46.1 | 21 | 38.7 | 12 | 49.1 | 20 | 46.1 | 21 | 38.7 | 12 | 49.1 | 20 | 46.1 | 21 | 38.7 | 12 | 49.1 | 20 |
| Skerness | 60.5 | 16.1 | 43 | 56.6 | 53 | 51.5 | 35 | 46.1 | 28 | 38.0 | 22 | 49.7 | 38 | 46.1 | 28 | 38.0 | 22 | 49.7 | 38 | 46.1 | 28 | 38.0 | 22 | 49.7 | 38 |
| Southampton | 61.9 | 16.6 | 44 | 57.3 | 62 | 52.4 | 35 | 48.3 | 27 | 39.4 | 20 | 51.3 | 40 | 48.3 | 27 | 39.4 | 20 | 51.3 | 40 | 48.3 | 27 | 39.4 | 20 | 51.3 | 40 |
| Southport | 63.5 | 17.5 | — | 59.7 | — | 53.5 | — | 47.5 | — | 39.5 | — | 51.5 | — | 53.5 | — | 47.5 | — | 39.5 | — | 51.5 | — | 53.5 | — | 47.5 | — |
| Southport | 59.7 | 15.4 | 36 | 55.1 | 44 | 50.1 | 30 | 45.4 | 18 | 39 | | | | | | | | | | | | | | | |

TEMPERATURE AND SUNSHINE AT BRITISH HEALTH RESORTS.

Mean Temperature of the Air, and the Percentage of the Possible Duration of Bright Sunshine at British Health Resorts and Chief Towns during the year August 1922 to July 1923. The mean temperature at New during the fifty years 1851-1900 is added for comparison.

| Place. | 1922. | | | | | | | | | | | | | | | |
|-----------|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|
| | Jan. | | Feb. | | March | | April | | May | | June | | July | | New | |
| | Temp. Sun. | | Temp. Sun. | | Temp. Sun. | | Temp. Sun. | | Temp. Sun. | | Temp. Sun. | | Temp. Sun. | | Temp. Sun. | |
| | °F. | % | °F. | % | °F. | % | °F. | % | °F. | % | °F. | % | °F. | % | °F. | % |
| Abbeville | 41.1 | 36 | 48.9 | 33 | 52.5 | 32 | 56.4 | 33 | 61.2 | 34 | 64.8 | 35 | 68.7 | 36 | 71.8 | 37 |
| Abbeville | 38.5 | — | 46.9 | — | 50.5 | — | 54.5 | — | 58.5 | — | 62.5 | — | 66.5 | — | 70.5 | — |
| Abbeville | 45.6 | 42 | 53.6 | 51 | 57.1 | 45 | 61.2 | 47 | 65.2 | 48 | 69.2 | 49 | 73.2 | 50 | 77.2 | 51 |
| Abbeville | 43.9 | 30 | 51.4 | 47 | 55.6 | 41 | 59.7 | 43 | 63.8 | 44 | 67.9 | 45 | 72.0 | 46 | 76.1 | 47 |
| Abbeville | 44.7 | 45 | 52.5 | 50 | 56.7 | 48 | 60.8 | 49 | 64.9 | 50 | 69.0 | 51 | 73.1 | 52 | 77.2 | 53 |
| Abbeville | 45.0 | 44 | 53.1 | 53 | 57.1 | 48 | 61.2 | 50 | 65.2 | 51 | 69.2 | 52 | 73.2 | 53 | 77.2 | 54 |
| Abbeville | 43.1 | 31 | 51.1 | 40 | 54.7 | 38 | 58.8 | 40 | 62.9 | 41 | 67.0 | 42 | 71.1 | 43 | 75.2 | 44 |
| Abbeville | 44.7 | 46 | 52.5 | 56 | 57.5 | 47 | 61.6 | 49 | 65.7 | 50 | 69.8 | 51 | 73.9 | 52 | 78.0 | 53 |
| Abbeville | 40.5 | 33 | 48.9 | 45 | 52.0 | 42 | 56.1 | 43 | 60.2 | 44 | 64.3 | 45 | 68.4 | 46 | 72.5 | 47 |
| Abbeville | 44.3 | 35 | 52.3 | 51 | 56.7 | 43 | 60.8 | 45 | 64.9 | 46 | 69.0 | 47 | 73.1 | 48 | 77.2 | 49 |
| Abbeville | 45.7 | 45 | 53.5 | 49 | 58.1 | 49 | 62.2 | 50 | 66.3 | 51 | 70.4 | 52 | 74.5 | 53 | 78.6 | 54 |
| Abbeville | 45.3 | 36 | 53.7 | 49 | 57.5 | 42 | 61.6 | 44 | 65.7 | 45 | 69.8 | 46 | 73.9 | 47 | 78.0 | 48 |
| Abbeville | 43.5 | 40 | 51.9 | 54 | 57.0 | 43 | 61.1 | 45 | 65.2 | 46 | 69.3 | 47 | 73.4 | 48 | 77.5 | 49 |
| Abbeville | 46.4 | 49 | 54.1 | 53 | 58.8 | 51 | 62.9 | 52 | 67.0 | 53 | 71.1 | 54 | 75.2 | 55 | 79.3 | 56 |
| Abbeville | 44.6 | 30 | 53.6 | 44 | 58.9 | 37 | 63.0 | 39 | 67.1 | 40 | 71.2 | 41 | 75.3 | 42 | 79.4 | 43 |
| Abbeville | 43.3 | 44 | 51.5 | 44 | 57.0 | 35 | 61.9 | 37 | 66.0 | 38 | 70.1 | 39 | 74.2 | 40 | 78.3 | 41 |
| Abbeville | 43.7 | 45 | 50.9 | 51 | 53.7 | 49 | 57.7 | 49 | 61.8 | 50 | 65.9 | 51 | 70.0 | 52 | 74.1 | 53 |
| Abbeville | 44.1 | 35 | 53.0 | 48 | 54.1 | 42 | 58.2 | 43 | 62.3 | 44 | 66.4 | 45 | 70.5 | 46 | 74.6 | 47 |
| Abbeville | 43.2 | 33 | 50.1 | 34 | 54.4 | 37 | 57.5 | 38 | 61.6 | 39 | 65.7 | 40 | 69.8 | 41 | 73.9 | 42 |
| Abbeville | 44.7 | 47 | 54.9 | 59 | 58.9 | 43 | 62.9 | 45 | 67.0 | 46 | 71.1 | 47 | 75.2 | 48 | 79.3 | 49 |
| Abbeville | 41.7 | 30 | 49.6 | 39 | 53.5 | 41 | 57.6 | 42 | 61.7 | 43 | 65.8 | 44 | 69.9 | 45 | 74.0 | 46 |
| Abbeville | 47.1 | 46 | 51.9 | 44 | 56.9 | 52 | 61.0 | 53 | 65.1 | 54 | 69.2 | 55 | 73.3 | 56 | 77.4 | 57 |
| Abbeville | 42.9 | 40 | 51.1 | 55 | 56.9 | 42 | 61.0 | 44 | 65.1 | 45 | 69.2 | 46 | 73.3 | 47 | 77.4 | 48 |
| Abbeville | 43.3 | — | 51.3 | — | 54.5 | — | 58.7 | — | 62.9 | — | 67.0 | — | 71.1 | — | 75.2 | — |
| Abbeville | 46.5 | 53 | 52.3 | 53 | 56.4 | 49 | 60.5 | 50 | 64.6 | 51 | 68.7 | 52 | 72.8 | 53 | 76.9 | 54 |
| Abbeville | 41.5 | 36 | 50.8 | 42 | 54.1 | 38 | 58.2 | 39 | 62.3 | 40 | 66.4 | 41 | 70.5 | 42 | 74.6 | 43 |
| Abbeville | 43.9 | 42 | 53.0 | 56 | 56.8 | 46 | 60.9 | 47 | 65.0 | 48 | 69.1 | 49 | 73.2 | 50 | 77.3 | 51 |
| Abbeville | 43.7 | 35 | 52.0 | 40 | 55.9 | 35 | 60.0 | 36 | 64.1 | 37 | 68.2 | 38 | 72.3 | 39 | 76.4 | 40 |
| Abbeville | 44.7 | 48 | 52.7 | 46 | 56.1 | 38 | 60.2 | 39 | 64.3 | 40 | 68.4 | 41 | 72.5 | 42 | 76.6 | 43 |
| Abbeville | 44.7 | — | 52.2 | — | 57.2 | — | 61.3 | — | 65.4 | — | 69.5 | — | 73.6 | — | 77.7 | — |
| Abbeville | 43.9 | 47 | 52.8 | 58 | 56.5 | 48 | 60.6 | 49 | 64.7 | 50 | 68.8 | 51 | 72.9 | 52 | 77.0 | 53 |
| Abbeville | 44.6 | 46 | 53.1 | 49 | 56.6 | 50 | 60.7 | 51 | 64.8 | 52 | 68.9 | 53 | 73.0 | 54 | 77.1 | 55 |
| Abbeville | 45.9 | 52 | 53.2 | 56 | 56.9 | 51 | 61.0 | 52 | 65.1 | 53 | 69.2 | 54 | 73.3 | 55 | 77.4 | 56 |
| Abbeville | 46.5 | 32 | 56.1 | 48 | 59.4 | 42 | 63.5 | 43 | 67.6 | 44 | 71.7 | 45 | 75.8 | 46 | 79.9 | 47 |
| Abbeville | 46.0 | 37 | 53.1 | 49 | 57.1 | 45 | 61.2 | 46 | 65.3 | 47 | 69.4 | 48 | 73.5 | 49 | 77.6 | 50 |
| Abbeville | 44.8 | 34 | 53.3 | 45 | 55.9 | 41 | 60.0 | 42 | 64.1 | 43 | 68.2 | 44 | 72.3 | 45 | 76.4 | 46 |
| Abbeville | 44.0 | 40 | 52.4 | 34 | 57.7 | 46 | 61.8 | 47 | 65.9 | 48 | 70.0 | 49 | 74.1 | 50 | 78.2 | 51 |
| Abbeville | 42.9 | 40 | 50.7 | 50 | 54.4 | 42 | 58.5 | 43 | 62.6 | 44 | 66.7 | 45 | 70.8 | 46 | 74.9 | 47 |
| Abbeville | 46.7 | 48 | 51.1 | 41 | 54.7 | 50 | 58.8 | 51 | 62.9 | 52 | 67.0 | 53 | 71.1 | 54 | 75.2 | 55 |
| Abbeville | 42.9 | 36 | 53.0 | 52 | 57.3 | 37 | 61.4 | 38 | 65.5 | 39 | 69.6 | 40 | 73.7 | 41 | 77.8 | 42 |
| Abbeville | 44.1 | 26 | 52.9 | 42 | 56.4 | 35 | 60.5 | 36 | 64.6 | 37 | 68.7 | 38 | 72.8 | 39 | 76.9 | 40 |
| Abbeville | 44.9 | 35 | 53.1 | 50 | 57.1 | 43 | 61.2 | 44 | 65.3 | 45 | 69.4 | 46 | 73.5 | 47 | 77.6 | 48 |
| Abbeville | 47.0 | 46 | 52.9 | 46 | 57.2 | 51 | 61.3 | 52 | 65.4 | 53 | 69.5 | 54 | 73.6 | 55 | 77.7 | 56 |
| Abbeville | 48.3 | 47 | 52.5 | 41 | 56.9 | 50 | 61.0 | 51 | 65.1 | 52 | 69.2 | 53 | 73.3 | 54 | 77.4 | 55 |
| Abbeville | 47.1 | 49 | 52.5 | 46 | 56.7 | 50 | 60.8 | 51 | 64.9 | 52 | 69.0 | 53 | 73.1 | 54 | 77.2 | 55 |
| Abbeville | 44.7 | 36 | 52.6 | 48 | 56.1 | 45 | 60.2 | 46 | 64.3 | 47 | 68.4 | 48 | 72.5 | 49 | 76.6 | 50 |
| Abbeville | 43.7 | 37 | 51.6 | 41 | 56.0 | 34 | 60.1 | 35 | 64.2 | 36 | 68.3 | 37 | 72.4 | 38 | 76.5 | 39 |
| Abbeville | 47.9 | 49 | 51.7 | 45 | 55.5 | 50 | 60.6 | 51 | 64.7 | 52 | 68.8 | 53 | 72.9 | 54 | 77.0 | 55 |
| Abbeville | 44.9 | 26 | 52.3 | 38 | 55.9 | 38 | 60.0 | 39 | 64.1 | 40 | 68.2 | 41 | 72.3 | 42 | 76.4 | 43 |
| Abbeville | 43.7 | 38 | 50.5 | 44 | 56.1 | 35 | 60.2 | 36 | 64.3 | 37 | 68.4 | 38 | 72.5 | 39 | 76.6 | 40 |
| Abbeville | 45.3 | 42 | 54.3 | 54 | 58.3 | 47 | 62.4 | 48 | 66.5 | 49 | 70.6 | 50 | 74.7 | 51 | 78.8 | 52 |
| Abbeville | 45.1 | 42 | 53.6 | 56 | 58.1 | 46 | 62.2 | 47 | 66.3 | 48 | 70.4 | 49 | 74.5 | 50 | 78.6 | 51 |
| Abbeville | 44.0 | 48 | 51.7 | 50 | 56.0 | 52 | 60.1 | 53 | 64.2 | 54 | 68.3 | 55 | 72.4 | 56 | 76.5 | 57 |
| Abbeville | 43.1 | 41 | 51.6 | 50 | 54.3 | 43 | 58.4 | 44 | 62.5 | 45 | 66.6 | 46 | 70.7 | 47 | 74.8 | 48 |
| Abbeville | 47.6 | 46 | 53.9 | 48 | 58.0 | 53 | 62.1 | 54 | 66.2 | 55 | 70.3 | 56 | 74.4 | 57 | 78.5 | 58 |
| Abbeville | 44.3 | 43 | 52.0 | 57 | 56.1 | 50 | 60.2 | 51 | 64.3 | 52 | 68.4 | 53 | 72.5 | 54 | 76.6 | 55 |
| Abbeville | 44.2 | 38 | 52.9 | 52 | 56.3 | 44 | 60.4 | 45 | 64.5 | 46 | 68.6 | 47 | 72.7 | 48 | 76.8 | 49 |
| Abbeville | 47.9 | 43 | 52.1 | 37 | 55.9 | 42 | 60.0 | 43 | 64.1 | 44 | 68.2 | 45 | 72.3 | 46 | 76.4 | 47 |
| Abbeville | 46.1 | 49 | 53.5 | 59 | 57.1 | 52 | 61.2 | 53 | 65.3 | 54 | 69.4 | 55 | 73.5 | 56 | 77.6 | 57 |
| Abbeville | 45.5 | 46 | 52.8 | 54 | 57.1 | 52 | 61.2 | 53 | 65.3 | 54 | 69.4 | 55 | 73.5 | 56 | 77.6 | 57 |
| Abbeville | 46.0 | 44 | 52.8 | 47 | 56.9 | 50 | 61.0 | 51 | 65.1 | 52 | 69.2 | 53 | 73.3 | 54 | 77.4 | 55 |
| Abbeville | 44.6 | 46 | 53.9 | 60 | 57.6 | 48 | 61.7 | 49 | 65.8 | 50 | 69.9 | 51 | 74.0 | 52 | 78.1 | 53 |
| Abbeville | 41.9 | 34 | 50.1 | 46 | 56.2 | 34 | 60.3 | 35 | 64.4 | 36 | 68.5 | 37 | 72.6 | 38 | 76.7 | 39 |
| Abbeville | 43.7 | 35 | 52.8 | 23 | 56.3 | 31 | 60.4 | 32 | 64.5 | 33 | 68.6 | 34 | 72.7 | 35 | 76.8 | 36 |
| Abbeville | 56.5 | — | 62.2 | — | 69.1 | — | 73.8 | — | 78.5 | — | 83.2 | — | 87.9 | — | 92.6 | — |

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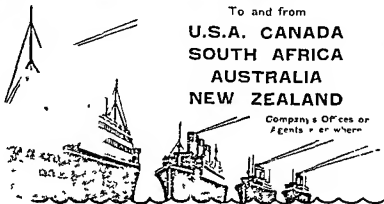


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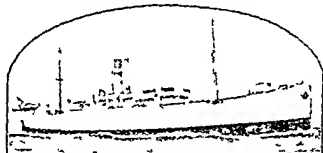
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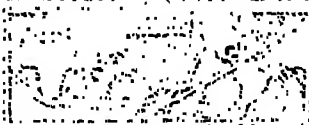
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|----------------------------------|-------------------|
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| Reserve Fund | 985,000 |
| | <hr/> 2,235,000 |
| Reserve Liability of Proprietors | 1,250,000 |
| | <hr/> £73,485,000 |

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Melbourne Office—257, COLLINS STREET, MELBOURNE, VICTORIA.

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Perth Office—ST GEORGES TERRACE, PERTH WESTERN AUSTRALIA.

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West End Branch: 17, NORTHUMBERLAND AVENUE, W.C. 2.

| | |
|--|-------------------|
| Paid-up Capital | £4,500,000 |
| Reserve Fund | £4,450,000 |
| Reserve Liability of Proprietors under the Charter | £4,500,000 |
| | <hr/> £13,450,000 |

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(Affiliated with Midland Bank Limited)

Established 1927

Incorporated 1865

Limited 1893

| | |
|------------------------------------|------------|
| Authorised and Subscribed Capital | £2,500,000 |
| Paid-up Capital | 700,000 |
| Reserve Fund | 600,000 |
| Undivided Profits | 92,981 |
| Total Assets (31st December, 1928) | 18,901,095 |

Head Office: WARING STREET, BELFAST.

AFFILIATIONS:

Midland Bank Limited
Established 1830

The Clydesdale Bank Limited.
Established 1835.

North of Scotland Bank Limited.
Established 1836

Midland Bank Executor and Trustee Company Limited.
Established 1909

The affiliated Banks have over 2 450 Branches in Great Britain & Northern Ireland

THE BRITISH LINEN BANK

Incorporated by Royal Charter, 1740

Capital (Paid up) £1,250,000

Reserve and Undivided Profits £2,224,771

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THE RIGHT HON THE EARL OF HOME

Head Office: 38, ST. ANDREW SQUARE, EDINBURGH.

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R. W. SEXTON Secretary

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Cable Transfers Foreign Collections Travelling Credits

Dividends Collected Coupons Purchased

Deposit and Current Accounts Opened

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HEAD OFFICE

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Second Vice President and General Manager G. E. H. M.
Secretary W. A. F. I. AT N.

| | | |
|-----------------------|-----------------|-------------------|
| Paid Up Capital | \$7 000 000 | £1 438 356 3s 4d |
| Reserve Fund (earned) | \$8 000 000 | £1 643 835 12s 4d |
| Investments | \$67 167 242 25 | £13 801 488 2s 8d |

DEBENTURES issued In sums of £50 and upwards

For terms of one year and upwards. Interest paid half yearly.
Interest computed from date on which the money is received.

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Lancaster (England) 1438 B. L. 1

As created with the above Corporation for the purpose of raising money for the
THE CANADA PERMANENT TRUST COMPANY



Founded 1853

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Head Office

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LONDON

6 BISHOPSGATE E C 2 & 11 WATERLOO PLACE, S W 1

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now affiliated with The National City Bank of New York)

Capital and Reserve \$20,000,000

Head Office

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Temporary Headquarters 43 Exchange Place

LONDON 11 WATERLOO PLACE, S W 1

THE NATIONAL CITY COMPANY

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Capital and Reserve \$110,000,000

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and 11 WATERLOO PLACE, S W 1

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H T ARMISTEAD Deputy Governor

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| | |
|--------------------------|---------------------|
| General Bank Balances | £48 772 447 |
| Savings Bank Balances | 50 605 355 |
| Note Issue Department | 42 798 226 |
| Rural Credits Department | 1 178 164 |
| Other Items | 7 202 182 |
| | £150 556 374 |

LONDON OFFICE: 36-41 NEW BROAD STREET, E.C.

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J S SCOTT Manager



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434 Branches and Agencies throughout Australia

| | | | |
|----------------------------------|------------|---|---|
| Subscribed Capital | £5,000,000 | 0 | 0 |
| Paid up Capital | £3,000,000 | 0 | 0 |
| Further Liability of Proprietors | £2,000,000 | 0 | 0 |
| Reserve Fund | £3,000,000 | 0 | 0 |

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| | |
|--|---|
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the United Kingdom

Australia

description transacted with
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LIMITED

THE NATIONAL BANK

LIMITED.

ESTABLISHED 1835

Head Offices: 13-17 Old Broad Street, London, E.C. 2.

| | | |
|--------------------------------------|-----|-------------|
| Subscribed Capital | - | £7,500,000 |
| Paid up Capital | - - | £1,500,000 |
| Reserve Fund | - - | £1,455,000 |
| Deposits etc (as at 30th June, 1929) | - | £37,753,535 |

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| | | |
|-------------------------|-------|-------------|
| Capital (fully-paid) | - - - | £2,500,000 |
| Reserve Fund (Oct 1928) | - - - | £2,795,787 |
| Deposits (Oct 1928) | - - - | £44,674,151 |

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LIMITED.

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PAID UP CAPITAL

RESERVE FUND

£4,000,000

£4,850,000

£12,000,000

£8,850,000

RESERVE LIABILITY OF PROPRIETORS

£8,000,000

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| | | |
|--|---|--------------------|
| CAPITAL AUTHORISED & SUBSCRIBED | - | £10,000,000 |
| CAPITAL PAID-UP | - | £2,500,000 |
| RESERVE FUND | - | £3,164,170 |
| CAPITAL UNCALLED | - | £7,500,000 |
| | | £13,164,170 |

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 and **77, KING WILLIAM STREET, LONDON, E.C. 4**

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Reserve Fund (1922) . . . £50,000

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SIR WALTER R LAWRENCE Bart, G C L E
Q C Y O L R
FIRST HON THE EARL OF LICHFIELD
SIR JOHN BUCK LLOYD

Secrets

Messrs FRANK & CO. 3 South Square
GRAYS W 1 L

General Manager

ARTHUR DIGHT BESANT F I A

REVERSIONS and LIFE INTERESTS PURCHASES or LOANS

LOANS UPON REVERSIONS may be obtained either at an Annual Interest of 10% consideration of deferred charges payable from the first instalment falling in and free of interest in all respects.

TEMPORARY DEPOSITS ACCEPTED

Prospectuses and Forms of Proposals may be obtained from

F J COLLINS, F I A *Secretary and General Manager*

TELEPHONE NO 6073 HOLBORN



YOU CANNOT GET A
BETTER INVESTMENT
THAN IS OFFERED BY

THE

HALIFAX
THE WORLD'S LARGEST
BUILDING SOCIETY

*Best rates of Tax Free Interest
No fees or charges Easy withdrawals*

ASSETS EXCEED £56,000,000

*Head Office Permanent Buildings, Halifax
London 124, Charing Cross Road, W C 2
General Manager SIR ENOCH HILL, JP*

Law Reversionary Interest Society, Ltd.

ESTABLISHED 1853

MANY persons have interests either for life or in expectation in property arising under Wills or Settlements. The operations of this Society enable such interests to be sold on most favourable terms, or loans to be obtained thereon at moderate rates of interest.

REMOTE interests which may never come into possession at all can be made available for immediate use if supported by Policies to be effected with the **EQUITY & LAW LIFE ASSURANCE SOCIETY**, which is under the same management.

For full information apply personally or through your solicitor, to the Secretary at the Society's Offices,

19, LINCOLN'S INN FIELDS, W.C.

ALLIANCE

Assurance Company

LIMITED.

ESTABLISHED IN 1824

Head Office BARTHOLOMEW LANE, LONDON, E.C. 2.

Marine Department 2-6, BILLITER SQUARE, LONDON, E.C. 3.

ASSETS EXCEED £30,000,000

Directors.

SIR JAMES H. A. T.

The Vice President

FREDERICK CAVENTISH BENTINCK

ALFRED FOWLER BUXTON

JOHN CALON

Major GEORGE M. A. ILLIS

FREDERICK CHAFFLORD GOODENOUGH

THE MARQUESS OF HARTINGTON

C. SHIRLEY HILLON

Honorary

Chairman

HENRY ALEXANDER TROTTER

RICHARD DE RANT TROTTER

Insurances of every kind.—

LIFE (with and without Profits). **ASSURANCES** with
DISABILITY BENEFITS. **ESTATE DUTY** Policies.
STAFF ASSURANCE and **PENSION SCHEMES.**
GROUP LIFE ASSURANCES. **CHILDREN'S**
DEFERRED ASSURANCES and **EDUCATIONAL**
ENDOWMENTS. **ANNUITIES.**

SINKING FUND and **CAPITAL REDEMPTION.****FIRE.****MARINE****BURGLARY** and **THEFT.**

ACCIDENTS of all kinds:—Personal Accident and Disease.
 Third Party, Drivers' Risks, Lift, Plate-Glass, Work-
 men's Compensation with Special Policies for
 Domestic Servants.

MOTOR CAR. MOTOR CYCLE.**FIDELITY GUARANTEE.****LIVE STOCK.**

BOILER AND MACHINERY INSURANCE AND
INSPECTION.

Comprehensive Policies for Buildings and Contents of
 Dwelling Houses.

The Company is Empowered to Act as Executor and Trustee.

Particulars of any of the above will be sent on request

(L. L. L. General Manager)

Insurance Advice

MR T G ROSE (Author of *Cost Price Assurance*) is at all times willing to give intending ASSURANTS assistance on Assurance matters without any charge falling upon the applicant. All proposals and premiums may be sent direct to the Company concerned.

THE TABLES PRESENTED below indicate the advisability of writing to or seeing the author *before* investment. Letters giving the fullest possible information as to date of birth etc. should be addressed

CLAREHAVEN ASHFORD MIDDLESEX

EXAMPLE OF RESULTS.

Whole Life Assurance (with profits) £10 Annual Premium †

*N.B. - The £10 Premium equals £9 nett (allowing for income tax rebate)

| Age at Entry | 25 | 30 | 35 | 40 |
|----------------------|--------|--------|------|------|
| Assumed age at death | 70 | 70 | 70 | 75 |
| Yield* | £1,374 | £1,108 | £877 | £760 |

Whole Life Twenty Limited Payments of £10 †

*N.B. - The £10 Premium equals £9 nett (allowing for income tax rebate)

| Age | 20 | 25 | 30 | 35 | 40 | 45 |
|-------------------|---------|------|------|------|------|------|
| Result at age 70† | *£1,050 | £888 | £736 | £604 | £489 | £392 |
| (Death assumed) † | | | | | | |

| *N.B. - The £10 premium equals £9 nett (allowing for income tax rebate) | Age at | | Yield † |
|---|--------|----------|---------|
| | Entry | Maturity | |
| £10 Annual | 20 | 60 | *£1,020 |
| Endowment | 30 | 60 | £598 |
| Premium | 40 | 65 | £412 |

† World wide policies

COST PRICE ASSURANCE Price One Shilling. A Guide to Policies yielding 4 to 5 per cent (compound) according to age at entry. By T G Rose. From all booksellers the Publisher Effingham Wilson 16 Copthall Avenue London E.C. 2 or the Author (POST FREE)

The subject is treated in a masterly way. The advantages of insurance from the point of view of the Policy holder could scarcely have been illustrated and explained with greater ability. —City Press

Assurance Policies carefully selected

ANNUITY RATES

The Canada Life Assurance Company specialises in Annuities, and its rates provide the best and safest method of increasing your income

The Annuities are secured upon the whole of the Assets of the Company, amounting to over £33,000,000 and at the end of 1928 the undivided surplus was £2,036,227

When you have an Annuity with the Canada Life the fluctuations of the Money Market and depreciation of Securities need cause you no anxiety. Your income is not only easily increased but made absolutely safe

HERE ARE SOME EXAMPLES:

£1,000 paid now will give the following ANNUAL INCOMES

MALES -

Age 35 £83 15 1 Age 60 £110 14 10 Age 75 £166 7 9

FEMALES -

Age 35 £74 17 0 Age 60 £95 12 1 Age 75 £141 4 10

paid regularly to the holder by 10 days. For other ages the Terms are proportionately lower. Special arrangements for impaired lives. The Company pays all stamp duties.

For further particulars apply to the nearest branch office or to the Manager, J. R. WANDLESS F.I.A.

CANADA LIFE ASSURANCE COMPANY,

(Established 1837)

2, St. James's Square, London, S.W. 1.

THRIFT MADE EASY

by means of a

MONTHLY INVESTMENT SYSTEM

Write for Booklet explaining what

£1 Per Month

will secure

CLERICAL, MEDICAL and GENERAL
Life Assurance Society.

Chief Office: 15, ST. JAMES'S SQUARE, LONDON, S.W.

Telephone Regent 1135

Over 10 Per Cent Per Annum Guaranteed For Life

This is the safe and certain return which a man aged 62 can obtain for life on capital invested with the **CONFEDERATION LIFE ASSOCIATION**, the old established Annuity Office, which has funds of £14,500,000 under direct Government supervision. Any sum from £100 upwards may be invested to produce a proportionate income.

The return granted on capital invested

at other ages by both male and female annuitants is equally liberal, and an increased amount of income is granted for each month of age completed since the intending annuitant's last birth day, while especially favourable terms are granted to those in impaired health.

Where desired, contracts may be effected in a form under which the full Return of the Capital is Guaranteed.

Write to day stating exact date of birth for a personal quotation to
G T VARNEY Manager for the United Kingdom

CONFEDERATION LIFE ASSOCIATION

Bush House, Aldwych, London, W.C.2

Funds Exceed £14,500,000

Established 1871



BY APPOINTMENT

GENERAL

LIFE

Established 1837

FIRE &

ACCIDENT 1885



Chief Offices

PERTH & LONDON

ASSURANCE CORPORATION LIMITED

Assets Exceed £12,000,000

EQUITY & LAW LIFE ASSURANCE SOCIETY

Established 1844.

Annual Report for the year ending
31st December, 1928.

| | |
|---|-------------|
| Gross New Assurances effected | £2,714,239 |
| (the largest in the history of the Society) | |
| Net New Assurances effected - - - | £1,880,539 |
| (the largest in the history of the Society) | |
| Gross Amount of Assurances in force | £17,600,850 |
| Total Funds exceed - - - - | £8,000,000 |

WHOLE LIFE ASSURANCES

Without Profits at exceptionally Low Rates of Premium

Examples:

| Age next Birthday | Premium for £1 000 payable throughout life | Premiums for £1 000 limited to | |
|----------------------|---|-----------------------------------|-------------|
| | | 15 payments | 20 payments |
| 25 | £ 14 19 2 | £ 26 14 2 | £ 22 4 2 |
| 35 | 20 4 2 | 33 0 0 | 27 12 6 |
| 45 | 28 19 2 | 42 1 8 | 35 15 10 |

For Prospectus write to

THE MANAGER AND SECRET.
18, Lincoln's Inn Fields, London,

— ESTABLISHED 1821. — CENTENARY 1921 —

GUARDIAN

ASSURANCE COMPANY LIMITED.

Head Office—68, KING WILLIAM STREET, LONDON, E C 4

Law Courts Branch—21, FLEET STREET, E C 4

Westminster Branch—28, KING STREET, COVENT GARDEN, W C 2

| | |
|--------------------|-------------|
| SUBSCRIBED CAPITAL | £2,059,971 |
| CAPITAL PAID-UP | £1,024,578 |
| TOTAL INCOME | £3,020,000 |
| TOTAL ASSETS | £12,080,000 |

Directors:

Chairman—HON EVELYN HUBBARD

Deputy Chairman—COL LIONEL H HANLEY, CMG

Vice Chairman—E HENRY LODD, Esq

Right Hon LORD ALDENHAM

F R S BALFOUR, Esq

ALAN H BRODRICK Esq

T G C BROWNE, Esq

Rt Hon LORD DAWSON OF PENN

PC CGVO., KCB, KCMG

WILLIAM DAWSON Esq

CHAS R GILLIAT, Esq

ROBERT L HUNTER Esq

PHILIP H MARTINEAU Esq

Lt Col G H M Mason, MP

C D MEDLEY Esq

RODERICK PRYOR Esq

GEORGE W ROWE Esq

R W SHARPLES Esq

E ROBERT STILL Esq

F A SEARVASY Esq

JOHN WALTER Esq

Solicitors—Messrs TROWER STILL & KEELING

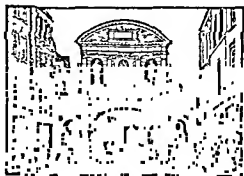
The Company transacts all the principal classes of insurance business, including

FIRE, LIFE, ACCIDENT, MARINE

Comprehensive Household Policies Employers Liability Insurance
Public Liability Lift Motor Car Burglary Fidelity Sinking Fund
and Leasehold Redemption Glass Consequential Loss resulting from
Fire Contingency Indemnity Registered Post and Forged Transfers

FIDELITY DEPARTMENT.

ALL CLASSES OF LEGAL BONDS are granted by the GUARDIAN and
such Bonds are accepted by the Law Courts for Receivers Administrators &c
and by all Departments of H M Government.



LEGAL & GENERAL ASSURANCE SOCIETY LIMITED

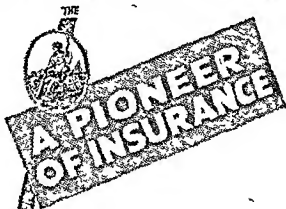
ESTABLISHED 1836

THE PERFECTED SYSTEM OF ASSURANCE

LIFE · FIRE · ACCIDENT
10 FLEET STREET,
LONDON
NEAR TEMPLE BAR



SUBSCRIBED CAPITAL £1000 000 • PAID UP CAPITAL £200 000
ASSETS EXCEED £21 000 000



Founded over 200 years ago

All Classes of Insurance
Transacted

Claims Paid Exceed
£62,000,000

Head Office
1, KING WILLIAM ST., E.C.4

Marine Dept
151 Leadenhall Street E.C.3

Applications for Agencies Invited

**LONDON
ASSURANCE**

BRANCHES AND AGENCIES THROUGHOUT THE WORLD

THE
LONDON LIFE

Association Limited

with which are associated

The Clergy Mutual Assurance Society

The Metropolitan Life Assurance Society

THE LONDON LIFE does not employ agents on commission or pay commission in any form. In comparison with the average expense ratio of all Ordinary Companies, this results in a saving to the assured of over

£120,000 a year.

Particulars of any class of Life Assurance will be given with pleasure and without charge.

H. M. TROUNCER,

Actuary and Manager.

81 King William Street,
London, E.C.4

THE
LIVERPOOL
AND
LONDON
AND
GLOBE

INSURANCE CO LTD.

FIRE LIFE ACCIDENT MOTOR MARINE

FUNDS EXCEED £23 000 000

HEAD OFFICE

1 Dale Street Liverpool

LONDON,

Chief Office 1 Cornhill

BRANCHES AND AGENCIES THROUGHOUT THE WORLD

MARINE & GENERAL
MUTUAL LIFE ASSURANCE SOCIETY

Head Office—48 FENCHURCH STREET, LONDON, E C. 3

Here's
Happiness
and Prosperity
for you and yours.

£275 A YEAR FOR LIFE, WHEN YOU RETIRE

Think of it! A care-free life from say age 55. An income of £275 a year absolutely secure to you for the remainder of your days—even if you live to be a centenarian. An income irrespective of business or other vicissitudes and not subject to market fluctuations, trade conditions or political troubles. What a boon to you and yours. What a burden off your mind.

The plan devised by the Sun Life of Canada makes this splendid prospect possible for you. You deposit with them a yearly sum you can well afford out of your income, and the money, under the care of this most prosperous Company accumulates to your credit, and to it are added extraordinarily generous profits. Thus you share in the Company's great prosperity.

The figures here given assume an age of 35 and are estimated on present profits, but readers who fill in the enquiry form and send it to the Company receive, without obligation, figures to suit their own age and circumstances. Full details of the Plan will also be sent.

£275 A YEAR FOR LIFE.

Just at the age you begin to feel you ought to take things more easily, the Sun Life of Canada takes it possible for you to do so. From year to year a 10 per cent £275 a year for life. If you pay it, and a sum of £3,400 will be given you instead of it, as it is due.

£20 A MONTH IF UNABLE TO WORK

(Applicable to members of the British Forces and Naval Reserve)

“... ..”

INCOME TAX REBATE.

If Income Tax remains as now, you will have a refund of the sum of the arrears, etc. This will be paid to the profit you make on the investment.

£2,000 FOR YOUR FAMILY IF ANYTHING HAPPENS TO YOU

So if you are not 15, the sum of £2,000 will be paid to your family if death should come. A death which you will be able to afford with ease.

ANY AGE, ANY AMOUNT

To pay you £275 a year for life have been put before the public since 1890 and for a long time. We have our own office, we can spare nothing out of it for you or at 150 for the future, this plan is the best and most profitable method you can adopt.

£100 000 000 ASSETS

“... ..”

FILL IN AND POST THIS FORM TO-DAY.

To The General Manager, SUN LIFE ASSURANCE CO OF CANADA,
20, Sun of Canada House, Cockspur Street, Trafalgar Square, LONDON S W 1

Assuming I can save and deposit £ per week/monthly—without obligation on my part—full particulars of my endowment plan showing what sum of cash will be available for me

Has no

Mr. Mr. Mr. Mr.

Address

Occupation

Exact Date of Birth

W 117

NATIONAL PROVIDENT

Founded 1835

INSTITUTION

Incorporated 1910.

FOR MUTUAL **LIFE** ASSURANCE.

DIRECTORS

Chairman—The Hon. VISCOUNT GIBBS

C. F. W. ADAMS Esq. (C)

C. J. BRYAN Esq.

SIR LYONS COCHRAN Bart.

J. R. E. DICKSON Esq.

A. I. LINDLEY Esq.

The Hon. Sir GEORGE MACDONAGH Bart.

K. G. B. & Co.

VISCOUNT MERVILLE Esq.

C. G. H. WHITELEY Esq. & Co.

VINCENT W. WOLFE Esq.

J. & HOWELL Attorneys and Solicitors

WRITE FOR PARTICULARS OF

Endowment Assurances

Investment Policies

Annuities

The "Sixty" Policy

Estate Duty Policies

Educational Endowments

Partnership Policies

Woman Worker's Policy

TO

48, GRACECHURCH ST., LONDON, E.C. 3.

ACCIDENT & GUARANTEE CORPORATION LIMITED

ACCIDENTS & ILLNESS
EMPLOYERS' LIABILITY
FIDELITY GUARANTEES
BURGLARY
FIRE
MOTOR CARS
PUBLIC LIABILITY
INSPECTION INSURANCE
OF BOILERS, ENGINES,
ELECTRICAL PLANT AND LIFTS
EXECUTORSHIP AND TRUST ESTATE

HEAD OFFICE
36-44 MOORGATE
LONDON E.C.2

THE PRUDENTIAL
IS THE LARGEST
INSURANCE
INSTITUTION
IN THE
BRITISH EMPIRE
 AND TRANSACTS LIFE FIRE
 BURGLARY, MARINE AND
 ALL OTHER CLASSES OF
 INSURANCE BUSINESS

Chief Office Holborn Bars, London, E C 1

FUNDS EXCEED . . . £219,000,000

CLAIMS PAID EXCEED £315,000,000



Heads of the Royal Exchange London

ROYAL EXCHANGE ASSURANCE

INCORPORATED A.D. 1720

Fire Life Sea Accident Motor Car Plate Glass
 Live Stock, Lift Boiler Machinery Burglary
 Employers Liability Annuities Third Party
 Fidelity Guarantees Trustees and or Executor

Full particulars on application to

Head Office: ROYAL EXCHANGE, E.C. 3.

West End Branch: 44, PALL MALL, S.W. 1.

INSURANCE

SECURITY FIRST



Total Funds £39 764 766

Head Offices

LIVERPOOL
NORTH J. N.

LONDON
105 MARK ST.

SCOTTISH AMICABLE

LIFE ASSURANCE SOCIETY

Founded in 1826

PRESIDENT

The Right Hon Lord STAMFORDHAM PC GCB GOIF GCSI

A STRONG MUTUAL OFFICE

with

A GREAT BONUS RECORD

At the latest Division of Profits on 31st December 1935 the
 Bonus Additions ranged from £2 to £5 13s per £100 per
 annum calculated on the original sum assured. The present
 rate of Interest Bonus is £2 2s (compound).

"WRITE FOR INFORMATION"

HEAD OFFICE 35, ST. VINCENT PLACE, GLASGOW, C1
 LONDON OFFICE 17, TOLKENHOUSE YARD, E.C. 2

WHY BE CONTENT WITH 5% ?

YOU CAN GET A GUARANTEED 7%, 10%, 15%, OR EVEN 20% ACCORDING TO AGE.

Do what many others are to-day doing—sell your stocks and shares and buy a Sun Life of Canada Annuity with the proceeds. A retired professional man has doubled his income by making this safe exchange. This *two years income in one* will be paid to him every year as long as he lives. It will never fail. No more worry no more wondering how to make ends meet. Life is now a different thing for him.

Think what it would mean to you—a far *larger* income an absolutely *safe* income. Guaranteed for Life by a Company with over £100,000,000 assets under strict Government supervision.

Write for full details of our Annuities so that we can show you how much better you can employ your Capital—what a much larger income you can enjoy and how much safer it will be. *Even better terms are granted in cases of impaired health* and there are many kinds of annuities including a *guaranteed return of Purchase Price*. Please give exact date of birth and amount of Capital at your disposal.

THE GENERAL MANAGER Sun Life Assurance Co. of Canada 20 of Canada House Cockspur Street, Trafalgar Square London S W 1

London and Manchester Assurance

COMPANY, LIMITED

ESTABLISHED 1869

**LIFE : FIRE : ACCIDENT
BURGLARY : MOTOR, &c**

CLAIMS PAID exceed £11,000,000

Chief Office FINSBURY SQUARE, LONDON, E C

PEARL ASSURANCE

CO. LTD.

(Incorporated in England)

ESTABLISHED 1864

LIFE - FIRE - ACCIDENT

| | |
|-------------------|--------------|
| Funds exceed | £58,000,000 |
| Total Claims paid | £59,000,000, |

Chief Office HIGH HOLBORN, W C 1

1 n 2 os 11 every town.

ANNOUNCEMENT

1 The latest development of modern Life Assurance is the

"PERFECT POLICY"

A unique combination of

LIFE ASSURANCE & INVESTMENT

Immediate Assurance of £1,000 with Automatic Replacement

Immediate replacement of \$1,000 with automatic replacement
from tax = a = 95 a = a has when the sig "ed receives

other £1000

of premium

ren state of

2 Specially low rates for policies required for DEATH DUTIES or BUSINESS PURPOSES

ENQUIRIES INVITED

FOUNDED 1831

SCOTTISH EQUITABLE LIFE ASSURANCE SOCIETY

Incorporated by Special Act of Parliament.

Head Office 28 ST ANDREW SQUARE EDINBURGH London Office 13 CORNHILL E.C.3

FUNDS - £9,000,000

THE

106th YEAR.

THE YORKSHIRE INSURANCE CO.

Total Assets Exceed £11,000,000 | Claims Paid Exceed £31,500,000

Chief Clerk (ST HELENS SQUARE YORK

Chief Offices { ST HELENS SQUARE YORK LONDON E0 2
BANK BUILDINGS, PRINCES STREET 2 MARK LANE WC2

U.S. 1 End Branch 48 PA

South-III, at Branch 40 E

South 7

North Tansen

North

| Frequency | | |
|-----------|-----------|--------------------|
| Age | Frequency | Relative Frequency |
| 20 | 1 | 0.1 |
| 25 | 2 | 0.2 |
| 30 | 3 | 0.3 |
| 35 | 2 | 0.2 |
| 40 | 1 | 0.1 |
| 45 | 1 | 0.1 |
| 50 | 1 | 0.1 |

CHILDREN'S DEFERRED,
EDUCATIONAL
GUARANTEED OPTION POLICIES,
Etc., Etc.

| A. List values | | B. List values | |
|----------------|----|----------------|---|
| 1 | 2 | 3 | 4 |
| 20 | 15 | 6 | 9 |
| 25 | 14 | 17 | 4 |
| 30 | 16 | 11 | 2 |
| 35 | 19 | | 0 |
| 40 | 22 | 8 | 9 |

Life in 4 lots and Pay 4.000 Perchard or Advances made on them

FIRE, LIFE, ANNUITY, ACCIDENT, BURGLARY, LOSS OF PROFITS THROUGH FIRE, TRUSTEESHIP AND EXECUTORSHIP, WORKMEN'S COMPENSATION, FIDELITY, PLATE GLASS, LIVE STOCK, MOTOR CAR, MARINE, &c. 13

ROYAL NATIONAL PENSION FUND FOR NURSES

Patron—H.M. THE KING

President—H.M. THE QUEEN

Sir ERIC HAMBRO, K.B.E. Chairman

Secretary—J. W. FAY

ANNUITIES { IMMEDIATE.
DEFERRED.
TEMPORARY.ALL KINDS
OF
LIFE ASSURANCE.

Invested Funds exceed TWO MILLIONS STERLING.

The fullest information respecting the Fund is supplied FREE of all charge by post on personal application to

Address—The SECRETARY, R.N.P.F.N.

15 Brompton Street Strand London W.C.2.

Honoured with the Patronage of H.M. the King
Established 1875**LIVE STOCK**The Pioneer Office for this class of Insurance
FIRE - - - ACCIDENT

All Classes of Insurance except Life

Chief Office

21, IRONMONGER LANE, LONDON, E.C.2

Manager & Secretary R. PARKER SMITH

**THE WESTMINSTER
214th YEAR. FIRE OFFICE**

Head Office 27 KING STREET, COVENT GARDEN, W.C.2

City Office 82, LOMBARD STREET, E.C.3

FIRE BURGLARY ACCIDENT and MOTOR VEHICLE INSURANCE**HOUSEHOLDERS COMPREHENSIVE INSURANCE****MODERATE RATES. PERFECT SECURITY.****PROMPT AND LIBERAL SETTLEMENT OF CLAIMS.****APPLICATIONS FOR AGENCIES INVITED****FOR THOSE IN SEARCH OF A SCHOOL***Write first***THE SCHOOLS DEPT.,****WHITAKER 12 WARWICK LANE LONDON E***(No charge is made to Parents or Principals)*

National Institute for the Blind

(Registered under the Blind Persons Act 1920)

Headquarters. 224-8, GREAT PORTLAND STREET, LONDON, W 1

Intro. BY HIS MAJESTY THE KING HER MAJESTY THE QUEEN
 CHA. JAMES Captain Sir BEAUCHROFT TOWSE V C B C O, C.B.P.

The far reaching activities of the National Institute, the largest institution for the blind in the world affect all classes and conditions of the blind population from the blind baby to those who lose their sight in old age

These activities include the following national services —

- | | |
|--|---|
| 1 Production of Embossed Publications | 8 Research Work |
| (a) Production of all kinds of books in Braille and Moon types (sold at a two thirds loss on cost price) | (a) Apparatus and Scientific Means of Overcoming Blindness |
| (b) Production by hand of Students' Text books in Braille (lent gratis) | (b) Exploration of Possibilities of Employment in Industrial Concerns |
| (c) Production of Music in Braille type (sold at a three quarters loss on cost price) | 9 Provision of Apparatus |
| (d) Preparation and Issue of Periodicals and Pamphlets | (a) Special Appliances |
| 2 Education of the Blind | (b) Embossed Maps |
| (a) Maintenance of Chorley Wood College for Blind Girls | (c) Games |
| (b) Grants for Higher Education and Professional Training | (d) Educational Models |
| (c) School of Massage (and Settlement of Blind Masseurs) | 10 Provision of Wireless Facilities |
| 3 Care and Training of Blind Babies at the three Sunshine Homes. | (a) Wireless Sets |
| 4 The Interests of Blind Musicians | (b) Embossed Radio Times Programmes |
| (a) Publication of Works of Blind Composers | 11 Employment of the Blind as |
| (b) Music Students' Library | (a) Canvassers |
| (c) Pianoforte Tuners Bureau | (b) Stereotypers |
| 5 The Provision and Maintenance of Homes | (c) Typists |
| (a) Home for Blind Women Clifton. | (d) Telephonists |
| (b) Home for Blind Women Brighton. | (e) Organisers etc |
| (c) Home for Blind Women Leamington. | 12 Home Industries Scheme in Home Counties |
| (d) Convalescent and Holiday Home, St Leonards | 13 Education of the General Public as to their attitude towards the Blind. |
| (e) Hostels for Blind Women London | 14 Information Bureau |
| 6 Ex Service Men's Fund for assisting men ineligible for St Dunstan's | 15 Collecting Agency under Agreements for many local Societies throughout the country |
| 7 Administration of Relief in co operation with Local Agencies | 16 Selling Depot for Goods made by the Blind |
| | 17 Gifts of Apparatus and Books and Periodicals to Blind Individuals, Schools Societies etc |
| | 18 Grants to Institutions for the Blind. |
| | 19 Provision of Christmas Parcels. |

FUNDS ARE URGENTLY NEEDED.

All Donations should be addressed to
 Hon. Treasurers, National Institute for the Blind, 224-8 Great Portland Street, W 1
 Cheques made payable to the Westminster Bank Ltd. Balance Sheet, Annual Report,
 & Form of Request etc. forwarded on application.

Principal Charitable Bequests of the Year.

CXXXV

APPENDED is a list of the principal bequests for charitable purposes recorded during the year

| Name | Gross Value of Estate | Approximate Amount | Remarks |
|--|-----------------------|--------------------|--|
| Baron Fernhard of Hove Sussex | £ 4,944,820 | £ 900,000 | Thirty per cent of the residue to the Charity Fund for the relief of the poor; £50,000 to the Jewish Orphanage West Notwood; £10,000 to the Lublin Jewish Synagogue; £5,000 to the Christian or non-Christian charitable institutions in England and Hove; and the balance as to one fifth for Jewish charitable purposes and four fifths to the use of Christian or non-denominational nature. |
| Colberts Alexander Fowler, of Galsahurst (personal estate) | " | " | " |
| Sumner John Huxtable of Northport Lancs. | " | " | " |
| Green Mrs Lucy of Cranleigh Surrey | 395,576 | 200,000 | Bequests include £20,000 to the Society for the Relief of the Blind of the United Kingdom; £10,000 to the Widows' Fund; £10,000 to the Charity Organisation Society; £8,000 to the Lebanon Hospital for the Blind; £5,000 to the Liverpool Leprosy Fund; and residue to be used for the relief of the blind, or part to be used for medical purposes, and part associated with the education and research in deafness. |
| Byllye Lt Col Alexander of Princes Gate, S.W. | 293,714 | 200,000 | About £200,000 to the Society for the Prevention of Cruelty to Animals. |

Principal Charitable Bequests of the Year

| Name | £ of Estate | Approved Amount | Objects. |
|---|----------------|--------------------|---|
| Wimpson, Walter Maddoc of Liverpool | 438 425 | 200 000 | Residue for such charities and in such proportions as executors may determine |
| Revelstoke Baron of Carlisle House Terrace | 558 779 | 175 000 | £50 000 to Guy's Hospital £100 000 to King Edwards Hospital for London £25 000 to Medical School of St Mary's Hospital, London |
| Thamesley John Edward Esq of Chelsea | 192 252 | 150 000 | Bequests include £8 000 to Wakefield Diocesan Church Organization Society and £5 000 to Yorkshire Museum, York, and £4 000 to the National Gallery, London for the purchase of works of Art. The due for augmenting the charitable bequests in his will or such as the executor think fit. |
| Larkin, J. D. Esq of Liverpool | 844 790 | 150 000 | One fourth of residue due to such charities as his trustees may determine |
| Scott, Margaret Anna of Walsingham Northumberland | 139 260 | 110 000 | On death of son ultimate residue to Northern Women's Hospital Newcastle, Northern Counties Society for Granting Annuities to Governesses and Ladies in Educated Circumstances, Officers Families Fund, Hospital for Sick Children Newcastle Fleming Memorial Hospital, E. J. Sanders Home for Cripple Children Newcastle |
| Robson Alfred of Dawhail Devon | 210 273 | 108 000 | Bequests include £4 000 each Church Army Dr Barnardos Homes £500 to Cancer Hospital Fulham and residue for such charitable purposes as executors may determine |
| Smith, Rev Dr John D.D. of Clifton Bristol | 103 885 | 103 000 | About £103 000 for the provision and encouragement of the Higher Education of Women (including thereby the education of female students in the subjects, or some of them as may compose the curriculum of an undergraduate at any University in the United Kingdom) |
| Carlson, F. L. of Bolton Lancs | 127 987 | 103 000 | On death of wife among other bequests left £5 000 to Chatham Hospital Manchester and £1 000 to Bolton Infirmary and residue as to one half Bolton Infirmary one-quarter Field Marshal Earl Haig's British Legion Appeal Fund one-eighth Cancer Research Fund of Manchester Royal Infirmary and one-eighth Cancer Hospital Fulham & W |
| de Wail, George Esq of Walsingham | 112 990 | 100 000 | £20 000 Shipwrecked Fishermen and Mariners Relief Society £20 000 to any South Sea Institute for the benefit and welfare of children and adults and to King Edwards Hospital London and the London Hospital |
| Waring Laurence Esq of Fitts Avenue Berks | 723 905 | 90 000 | Bequests include £10 000 each to Victoria University Manchester and University of Liverpool and £50 000 principally for research work at University of London £20 000 to London Hospital £5 000 each to London Hospital and Warship Company of Infirmaries and £4 000 to the Royal Waterworks Hospital for Children and Women Warship Road W.P. and £500 to Enfield Home Medical College Manchester |

Review of Charitable Bequests of the Year

CXXVIII

| Name | | Amount in £ | Amount in £ | |
|---------|---------|-------------|-------------|---|
| William | William | 112 761 | 95 000 | 1. The estate of I. Shaw of South Wales Dock and Foundry, a Hospital Fund Dr. Barnard's Homes Walls and Straws Society and St. Dunstan's House for the Blind. |
| Isaac | Isaac | 445 850 | 50 000 | 2. The estate of the late Merton College Oxford to endow 50 scholarships for Jewish students who are Protestants and who are sons and paternal grandfathers and great grandfathers are or were both British subjects and Protestants. |
| Edmund | Edmund | 121 528 | 70 000 | 3. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |
| John | John | 91 273 | 70 000 | 4. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |
| John | John | 87 884 | 60 000 | 5. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |
| John | John | 79 376 | 60 000 | 6. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |
| John | John | 74 840 | 60 000 | 7. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |
| John | John | 557 459 | 56 000 | 8. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |
| John | John | 112 447 | 50 000 | 9. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |
| John | John | 56 9 4 | 50 000 | 10. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |
| John | John | 54 498 | 55 000 | 11. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |
| John | John | 58 202 | 54 000 | 12. The estate of the late John Seamen's Place and the late Institute for Men, London and the late Institute. |

Principal Charitable Bequests of the Year.

| Name | General value of Estate | Apprentice Amount | Notes |
|---|-------------------------|-------------------|--|
| Calton Major Hubert George Edward R.A., of Droitwich, Worcs | £ 99,237 | £ 56,000 | About £55,000 for various Roman Catholic Church and charitable purposes. |
| Iago, James of Cheltenham Glos | 145,940 | | |
| Chadwick John Thomas, of Stockport, Cheshire | 57,756 | | |
| Gould Augustus of Bournemouth | 93,675 | | |
| Powell Charles Marton of Guildford, Surrey | 98,460 | | |
| Foster Arthur Henry, of Birmingham | 152,669 | 40,000 | Bequests include £30,000 and Orcewell Cottages and Land at each to be given to establish 11 meso-rindant and Necessities for Ladies who are spinsters or widows £200 to the Warwickshire Beekeepers Association and £1,000 to Birmingham General Hospital. |
| Atkins Frederick Anthony, of Crouch End N | 45,685 | 10,000 | Testate of property to London Homeopathic Hospital British Home for incurables Birmingham Hospital and Union Stockwell Orphanage Whitefields Central Mission (Tramway Central Mission) Claremont Central Mission, West Ham Central Mission, Salvation Army, Manchester and Salford Wesleyan Mission. |
| Newlyn John Samuel of Staplehurst Kent | 75,016 | 40,000 | Subject to certain life interests to be paid to Newlyn Charity Fund for poor persons resident in the parish of Staplehurst. |
| Pope William Walter of Slough B. K. | 75,425 | | |
| Hamilton Miss Marianne, of Anglemey | 49,885 | | |

DR. BARNARDO'S HOMES

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Refused Admission."**

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8,000 always being supported

465 are Crippled Invalid Deaf and Dumb, physically afflicted or sick

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Vol. 10 No. 1 the National A.S.

1885
646

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